U.S. DEPARTMENT OF THE INTERIOR
March 3, 1849

Water Resources Data for Nevada

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NV-80-1

WATER YEAR 1980

Prepared in cooperation with the State of Nevada
and with other agencies

CALENDAR FOR WATER YEAR 1980

1979

OCTOBER

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and with other agencies

1

UNITED STATES DEPARTMENT OF THE INTERIOR

JAMES G. WATT, Secretary

GEOLOGICAL SURVEY

Dallas L. Peck, Director

For information regarding water-resources investigations
in Nevada, write to:
District Chief, Water Resources Division
U.S. Geological Survey
Room 229, Federal Building
705 North Plaza Street
Carson City, Nevada 89701

1982

Preface

This report was prepared by the U.S. Geological Survey in cooperation with the State of Nevada and with other agencies, by personnel of the Nevada District of the Water Resources Division under the supervision of Terry Katzer, Acting District Chief, and John D. Bredehoeft, Regional Hydrologist, Western Region.

This report is one of a series issued State by State under the general direction of Philip Cohen, Chief Hydrologist, and Robert J. Dingman, Assistant Chief Hydrologist for Scientific Publications and Data Management.

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Water-resources data for the 1980 water year consist of records of discharge and water quality for streams; stage, contents, and water quality for lakes and reservoirs; and water levels and water quality for wells. This volume contains records of water discharge at 134 gaging stations; stage and contents for 21 lakes and reservoirs; water-quality data for continuing-record stations at 40 stream sites and 1 lake site, for partial-record stations at 4 stream sites, 10 lake sites, and 4 wells, and for supplemental-record stations at 65 stream sites and 3 lake sites; and water levels for 211 observation wells. Also included are data for 72 crest-stage partial-record stations and 12 low-flow partial-record stations. Additional water data, collected at various sites that are not part of the systematic data-collection program, are published as miscellaneous measurements. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in Nevada.

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GAGING STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED

[Letter after station name designates type of data: (d) discharge, (elevation or contents, (c) chemical, (b) biological and microbiological, (t) water temperature, (s) sediment; (x) supplemental water-quality data listed separately]

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WATER RESOURCES DATA FOR NEVADA, 1980

INTRODUCTION

Water-resources data for the 1980 water year consist of records of discharge and water quality for streams; stage, contents, and water quality for lakes and reservoirs; and water levels and water quality for wells. This volume contains records of water discharge at 134 gaging stations; stage and contents for 21 lakes and reservoirs; water-quality data for continuing-record stations at 40 stream sites and 1 lake site, for partial-record stations at 4 stream sites, 10 lake sites, and 4 wells, and for supplemental-record stations at 65 stream sites and 3 lake sites; and water levels for 211 observation wells. Also included are data for 72 crest-stage partial-record stations and 12 low-flow partial-record stations. Additional water data, collected at various sites that are not part of the systematic data-collection program, are published as miscellaneous measurements. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in Nevada.

Records of stream discharge and content or stage of lakes and reservoirs were first published in a series of U.S. Geological Survey water-supply papers entitled "Surface Water Supply of the United States." Through water year 1960, these water-supply papers were in an annual series; for 1961-70, they were in 5-year series. Records of water quality were published from 1941 to 1970 in an annual series of water-supply papers entitled "Quality of Surface Waters of the United States." Records of ground-water levels were published through 1974 in a series of water-supply papers entitled "Ground-Water Levels in the United States." Water-supply papers may be consulted at the libraries of principal cities in the United States, or, if not out of print, they may be purchased from the Eastern Distribution Branch, Text Products Section, U.S. Geological Survey, 604 S. Pickett St., Alexandria, VA 22304.

For water years 1961 through 1974, streamflow data were released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records for water years 1964 through 1974 were similarly released, either in separate reports or in conjunction with streamflow records.

Beginning with the 1975 water year, surface-water, ground-water, and water-quality data have been published as an official Geological Survey report on a State-boundary basis. These official reports carry an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as "U.S. Geological Survey Water-Data Report NV-80-1." For archiving and general distribution, the reports for water years 1971-74 are also identified as water-data reports. These water-data reports are for sale, in paper copy or in microfiche, by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

COOPERATION

The U.S. Geological Survey and organizations of the State of Nevada have had cooperative agreements for the systematic collection of streamflow records since 1909, and for water-quality records since 1951. Organizations that assisted in collecting data through cooperative agreement with the Survey during 1980 are:

Nevada Department of Conservation and Natural Resources,
R. D. Westergard, Director.
Division of Water Resources, P. G. Morros, State Engineer.
Division of Environmental Protection, L. H. Dodgion, Administrator.

Nevada Department of Transportation, A. E. Stone, P. E., State Highway Engineer.

Carson City Public Works Department, L. A. Werner, Director.

California Department of Water Resources, R. B. Robie, Director.

Assistance in the form of funds or services was given by: Corps of Engineers, U.S. Army; Bureau of Indian Affairs, Bureau of Land Management, Bureau of Reclamation, and Fish and Wildlife Service, U.S. Department of the Interior; Forest Service, U.S. Department of Agriculture; U.S. District Court Watermaster; U.S. Environmental Protection Agency; U.S. Board of Water Commissioners; Desert Research Institute; Washoe County Public Works Department; Clark County Flood Control District; City of Las Vegas; City of Reno; City of Sparks; Walker River Irrigation District; Carson-Truckee Water Conservancy District; Truckee-Carson Irrigation District; Carson Water Sub-Conservancy District; Nevada Power Company; Sierra Pacific Power Company; and Nevada First Corporation.

Organizations that supplied data are acknowledged in station descriptions.

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HYDROLOGIC CONDITIONS DURING 1980

Surface Water

Nevada has no truly large rivers as judged by flow volume. The largest streams in the State are the Humboldt, Truckee, Carson, Walker, Muddy, Virgin, and Colorado Rivers. The Colorado River, which is by far the largest of the seven, forms the boundary between southeastern Nevada and northwestern Arizona. Of the remaining listed rivers, only the Humboldt and Muddy begin and terminate in Nevada. The other four enter Nevada from an adjacent state.

The larger rivers typically follow the flow pattern of a gaining stream in the well-watered mountain reaches and a losing stream in the lower altitude reaches. The major cause of the downstream diminution of flow is water use for irrigation.

Much of Nevada is drained by small streams that are dry most of the year. Typically, such streams respond only to intense precipitation, which generally occurs several times a year at the most. In many years, the streams have no flow, and even in relatively wet years, total flow duration in such streams may be measured in hours.

Surface-Water Conditions

The Humboldt River, which drains an area of about 17,000 square miles, flows generally southwestward from eastern Elko County to the Humboldt Sink--a distance of about 290 miles. In 1980, highest flows in the Humboldt and its major tributaries resulted from spring snowmelt. Flows were generally above normal in most of the basin. Marys River, a northern tributary to the Humboldt, flowed at 139 percent of the long-term mean in 1980.

Streamflow in the east and central parts of the State exhibited normal to above-normal flow in 1980. The flow in Steptoe Creek near Ely was 129 percent of its 14-year recorded mean.

The western rivers that originate in the Sierra Nevada--the Truckee, Carson, and Walker--experienced normal to above-normal flows. Contributing to this productive water year was the large storm of mid-January. Abundant warm rain in the Sierra Nevada caused significant rises along the Carson and Truckee Rivers and their main tributaries. The East Fork Carson River near Gardnerville peaked on January 13 at 7,900 ft^3/s. That peak flow is slightly greater than the "15-year flood" (a 15-year flood is a flow that is equalled or exceeded once every 15 years, on the average). Residents along the main rivers were spared major damage when precipitation turned to snow before the storm ended. Flows for the 1980 water year in the West Walker River near Coleville and the Carson River near Carson City were 147 and 164 percent, respectively, of the long-term means. Truckee River flow in Nevada was in the normal range. In contrast, the flow of major tributaries to the river in California was above normal, and the contents of numerous upstream storage reservoirs were augmented significantly as a result.

The Virgin and Muddy Rivers are two important southern Nevada streams. During 1980, the spring-fed Muddy River had a mean flow in the normal range. In contrast, the flow of the Virgin River, which originates mostly in Utah and discharges to Lake Mead, was 264 percent of the mean in response to greatly above-normal precipitation.

Surface-Water Quality

The quality of surface water in Nevada varies greatly, from place to place as well as seasonally. Water temperatures and the concentrations of dissolved solids and suspended sediment are generally higher in the southern part of the State than in the north. Dissolved-solids values of 1,000 to 3,000 mg/L are quite common in southern water, whereas values exceeding 1,000 mg/L in northern Nevada surface water are uncommon.

The small mountain streams in Nevada have water of generally good quality. Water temperatures are moderate during the summer, and ice is common during the winter months. Low dissolved-solids concentrations--characteristically less than 500 mg/L and commonly less than 200 mg/L--are the rule for most of the mountain streams.

Mining activities in the past have contributed to surface-water quality problems. High mercury concentrations, related to residues from mining operations in the Comstock Lode in and near Virginia City during the 19th Century, have been detected in the lower Carson River. Acid mine drainage from the abandoned Leviathan Mine in California is still affecting water quality in the East Fork Carson River.

Municipal and industrial wastes from the two major metropolitan areas in Nevada, Las Vegas and Reno-Sparks, have significantly affected local stream quality. Las Vegas Wash in Las Vegas Valley receives treated sewage effluent rich in nutrients. Figure 1 shows pronounced trends in specific conductance (an indicator of dissolved-solids concentration) and discharge for Las Vegas Wash since 1970. The discharge graph shows that streamflow has increased appreciably during the last decade at both the Henderson and Boulder City gages (6.0 and 0.8 miles, respectively, upstream from the high-water line of Lake Mead). The trend reflects a continuing population growth in Las Vegas Valley and the resulting increase in sewage-effluent discharge to the wash upstream from the Henderson gage. The discharge graph also shows an increase in flow between the two gages. Much of this inflow apparently is saline ground water. The specific-conductance graph shows that the salinity of the effluent-dominated flow at the Henderson gage has remained relatively constant during the period. At the Boulder City gage, in contrast, specific conductance has decreased considerably--from almost 6,000 micromhos in 1970 to only a little more than 3,000 micromhos in 1980. This change reflects the dilution of saline ground-water inflow between the two gages by the increasing quantities of sewage effluent.

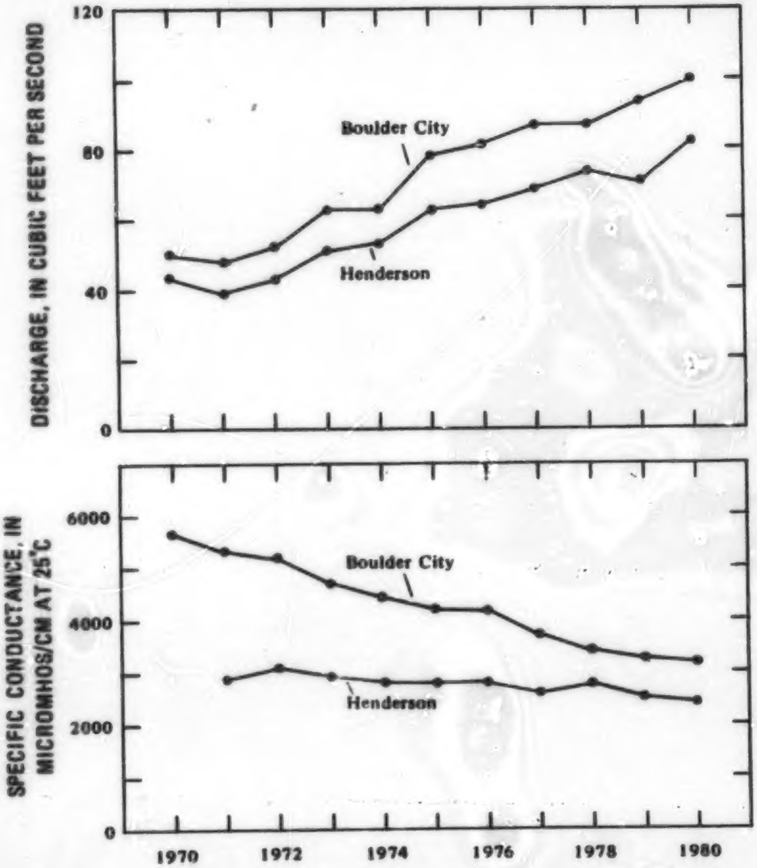

FIGURE 1.–Average annual discharge and specific conductance of Las Vegas Wash at the Henderson and Boulder City gages (stations 09419700 and 09419800, respectively), 1970–80.

Agricultural return flows and sewage effluent in the Reno-Sparks metropolitan area are the objects of ongoing technical studies, and the river water is the focus of conflicting interests among municipal, recreational, and

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Indian Reservation users. Data for the Truckee River at Lockwood (station 10350050), downstream from the Reno-Sparks area, indicate moderate increases in the concentration of two important nutrients--nitrogen and phosphorus--during 1975-80:

Water year[1]	Average discharge (ft^3/s)[2]	Average nitrogen (mg/L)[3]	Average phosphorus (mg/L)[3]
1975	991	1.1	0.28
1976	616	1.2	.28
1979	446	1.5	.52
1980	786	1.7	.41

[1] Data for water years 1977-78 are not listed because of the distorting influence of near-record low flows during the summer and fall of 1977.

[2] Discharge data are for the Vista gage (10350000), about 2 miles upstream from Lockwood.

[3] Total nitrogen and total phosphorus, expressed as N and P, respectively.

The increases may be related at least in part to the growth of urbanization in the Reno-Sparks area during the same period.

Sediment transport by streamflow varies greatly from place to place, seasonally and annually. Overall, the greatest sediment movement is probably caused by flash flooding--the type of runoff that often produces debris flows. Sediment transport associated with flash floods is difficult to measure and is rarely observed by hydrologists, except after the event. The few available data thus far collected verify the importance of this natural process to erosion and sediment transport. In fact, much of the valley fill throughout many valleys in the State has been emplaced by flash flooding in the geologic past.

The amount of sediment transported by a stream generally is proportional to the rate of streamflow; thus, except for flash floods, the bulk of fluvial sediment moves during the winter or spring when precipitation and snowmelt are greatest.

Well-known areas of abnormal channel erosion include the terminal reaches of the Truckee and Walker Rivers. Declining levels of Pyramid and Walker Lakes throughout much of this century have lowered the rivers' base levels and caused extensive channel readjustments.

Urbanization in the Reno-Sparks and Las Vegas metropolitan areas is believed to have greatly accelerated erosion, and thus increased sediment transport during storms.

In Las Vegas Wash downstream from Henderson, two events--one natural and the other man-caused--have had a profound effect on stream-channel erosion and suspended-sediment transport since collection of sediment data began at the Boulder City gage (09419800) in January 1974. The first event was a record runoff during July 4-6, 1975, that resulted from an intense rainstorm on July 3 in Las Vegas Valley. The second event was removal of a road culvert adjacent to the Boulder City gage in May 1978. Both events triggered considerable erosion in the 5-mile reach upstream from the gage. Downcutting has been as great as 20 to 30 feet in some places, and lateral erosion also has been extensive (P. A. Glancy, U.S. Geological Survey, oral commun., 1981). Data for the current year show that the stream channel has not as yet recovered from the pair of events. The suspended-sediment and discharge records since data collection began at the Boulder City gage are summarized below.

Period	Maximum measured sediment concentration (mg/L)	Discharge (cubic feet per second)	
		At time of maximum measured concentration	Maximum for entire period
Aug. 1969-Dec. 1973	no data	--	485
Jan. 1974-July 3, 1975	288	69	300±
July 4-6, 1975	----------record high flows----------		2,430
July 7-Sept. 14, 1975	no data	--	107
Sept. 15, 1975-May 17, 1978	17,300	616	1,050
May 18, 1978	----------culvert removed----------		75±
May 19, 1978-Sept. 1979	18,200	176	217
Oct. 1979-Sept. 1980	69,600	350	620

The tabulation on the following page summarizes discharge and water-quality characteristics at 20 stream sites in and immediately adjacent to Nevada during water year 1980, and compares those data with the longer term records for each site (new record maximums and minimums are indicated by italics). With few exceptions, the comparisons show no pronounced contrasts between 1980 and the prior periods of record. For Las Vegas Wash near Boulder City (09419800), the record-high concentration of suspended sediment and the record-low value for specific conductance are discussed above. For the Virgin River near Riverside (09415230) and the Quinn River near McDermitt (10353500), new record highs and lows are not of great significance because of the relatively short periods of water-quality record (less than 3½ years) at those sites.

Ground Water

The geography and geology of Nevada are sufficiently complex that the occurrence of ground water and a description of ground-water conditions in the State cannot easily be summarized. Ground water occurs in the unconsolidated valley-fill sedimentary aquifers of more than 250 basins and valleys. Most of these valleys are closed; that is, there is no surface drainage out of the valley, although there may be ground-water flow from one valley to another. Additionally, ground water occurs in the bedrock underlying the valley fill. In some areas, these bedrock units form single aquifers that underlie a number of basins. For the most part, however, the ground-water system in one basin is not directly related to the ground-water system in adjacent basins. Changes in ground-water conditions brought about by changing recharge or discharge, pumping, land use, or other factors in one basin may not affect conditions in adjacent basins. Broad generalizations concerning ground-water conditions throughout the State generally cannot be made. Descriptions of conditions in specific basins and valleys apply only to those areas, and their significance cannot be transferred to other areas.

Water-Level Fluctuations

Ground-water levels fluctuate seasonally and annually in response to a variety of stresses or changes in stress. Short-term changes in climatic conditions can lead to changes in natural recharge and discharge. This in turn can cause natural changes in ground-water levels, but the effect may take years to become evident. Long-term climatic changes affect water-level trends also. Pumping of ground water for public-supply, agricultural, or industrial purposes also causes changes in ground-water levels.

Except in Las Vegas Valley, no major net changes in water level were observed in Nevada during 1980. Significant net declines of 1 to 6 feet were observed in the Lower Reese River and Winnemucca areas as well as in Dayton, Diamond, Eagle, Independence, and Newark Valleys and the Toana - Rock Spring area of Thousand Springs Valley.

Station name and number	Maximums and minimums for current year (upper numbers[a]) and for prior period of record (lower numbers, in parentheses)									
	Discharge (cubic feet per second)		Specific conductance (micromhos)		Water temperature (degrees Celsius)		Fecal streptococci (colonies per 100 mL)		Suspended sediment (milligrams per liter)	
	Maximums	Minimums	Maximums	Minimums	Maximums	Minimums	Maximums	Minimums	Maximums	Minimums
Virgin R at Littlefield 09415000	10,400 (35,200)	65 (38)	3,920 (4,650)	732 (685)	32.5 (33.5)	8.0 (2.0)	-- --	-- --	-- --	-- --
Virgin R nr Riverside 09415230	12,300 (16,000)	17 (0)	4,430 (5,260)	924 (900)	*35.5* (35.0)	8.5 (3.5)	*16,000* (7,200)	280 (100)	*11,700* (6,580)	469 (166)
Muddy R nr Overton 09419515	*438* (395)	*0.22* (0.37)	*4,120* (4,050)	2,220 (1,880)	25.5 (28.0)	9.0 (7.0)	5,800 (6,800)	*880* (1,200)	715 (1,520)	*121* (142)
Las Vegas Wash nr Henderson 09419700	994 (6,510)	41 (4.8)	3,070 (6,980)	2,130 (1,660)	26.0 (28.0)	11.0 (2.0)	-- --	-- --	20 [b] (347)	4 (3)
Las Vegas Wash nr Boulder City 09419800	620 (2,430)	76 (14)	4,520 (9,120)	*2,380* (2,600)	*27.0* (26.0)	8.0 (3.0)	4,200 (16,000)	150 (55)	*80,000* (17,300)	187 (111)
Colorado R blw Hoover Dam 09421500	28,700 (36,000)	629 (152)	1,180 (1,230)	1,020 (1,000)	16.0 (18.5)	10.0 (9.0)	5 (45)	<1 (1)	2 (6)	0 (0)
Colorado R blw Davis Dam 09423000	27,900 (31,200)	1,980 (285)	1,140 (1,290)	1,100 (900)	19.0 (21.5)	10.0 (8.0)	-- --	-- --	-- --	-- --
Steptoe Ck nr Ely 10244950	28 (37)	3.1 (2.0)	376 (403)	306 (218)	10.0 (11.0)	4.0 (2.5)	150 (1,400)	<2 (<2)	93 (810)	3 (3)
S Twin R nr Round Mtn. 10249300	43 (128)	1.7 (0.11)	139 (158)	83 (75)	17.5 (18.0)	0.0 (0.0)	71 (1,500)	<2 (<2)	38 (1,970)	2 (0)
Chiatovich Ck nr Dyer 10249900	26 (527)	5.6 (1.0)	66 (82)	*48* (51)	19.0 (36.5)	0.0 (0.0)	260 (600)	2 (2)	150 (195)	16 (13)
Walker R nr Wabuska 10301500	2,220 (3,280)	20 (0)	640 (792)	222 (183)	24.0 (36.5)	3.0 (0.0)	1,300 (1,700)	52 (16)	533 (1,720)	12 (10)
Carson R nr Fort Churchill 10312000	6,170 (15,300)	0.51 (0)	665 (840)	89 (81)	22.0 (29.0)	0.0 (0.0)	6,600 (36,000)	12 (4)	1,160 (1,950)	5 (4)
Humboldt R nr Carlin 10321000	3,970 (6,160)	16 (0.1)	610 (677)	308 (209)	24.0 (29.0)	1.0 (0.0)	405 (830)	*9* (13)	488 (862)	*17* (43)
Humboldt R nr Imlay 10333000	1,820 (4,080)	18 (0)	802 (896)	*382* (544)	25.5 (30.5)	0.5 (0.0)	-- --	-- --	2,000 (2,200)	46 (9)
Humboldt R nr Rye Patch 10335000	1,380 (4,420)	(0.50) (0)	847 (4,010)	645 (384)	22.5 (29.5)	0.0 (0.5)	23 (2,400)	3 (<2)	64 (107)	14 (14)
Truckee R at Farad 10346000	8,150 (17,500)	291 (28)	*377* (190)	61 (39)	18.0 (21.0)	0.0 (0.0)	-- --	-- --	-- --	-- --
Truckee R at Lockwood[c] 10350050	9,970 (18,900)	249 (7)	277 (587)	104 (84)	21.0 (24.0)	2.0 (0.0)	770 (2,000)	40 (<2)	-- --	-- --
Truckee R at Wadsworth 10351650	*8,830* (7,790)	3.1 (3.1)	286 (505)	111 (99)	28.5 (28.5)	0.5 (0.0)	-- --	-- --	-- --	-- --
Truckee R nr Nixon 10351700	8,600 (14,400)	29 (8.1)	815 (1,110)	111 (96)	21.5 (26.5)	2.0 (0.0)	*5,300* (2,100)	7 (2)	863 (2,530)	7 (2)
Quinn R nr McDermitt 10353500	312 (1,380)	0.34 (0)	689 (763)	*312* (323)	27.0 (28.0)	0.0 (0.0)	180 (3,000)	20 (10)	*478* (314)	7 (2)

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[a] Maximums or minimums for the current year that are, respectively, greater than or less than those for the prior period of record are indicated by italics.

[b] Questionable value not verified by duplicate determination; second-highest value for period of record, 73 mg/L.

[c] Discharge data are for Vista gage (station 10350000), about 2 miles upstream from Lockwood.

Ground-water pumpage in Las Vegas Valley declined 1,000 acre-feet in 1980 to 71,000 acre-feet. Water imported to Las Vegas from the Colorado River increased from 105,000 acre-feet in 1979 to 115,000 acre-feet in 1980. Water-level changes in response to pumping from the principal aquifer continue to be greatest in the northern part of Las Vegas Valley, where net declines of as much as 10 feet were observed. In contrast, water levels rose as much as 5 feet along the western side of the valley. In the near-surface aquifer, water levels continued to rise throughout the southeastern part of the valley during 1980.

DEFINITION OF TERMS

Commonly used terms related to surface water, ground water, and water quality are defined below. In addition, a table for converting measurement units of the inch-pound system to metric (International System) units is on the inside of the back cover.

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot; it is equivalent to 43,560 cubic feet, or about 326,000 gallons, or 1,233 cubic meters.

Algae are mostly aquatic single-celled, colonial, or multicelled plants, containing chlorophyll and lacking roots, stems, and leaves.

Algal growth potential (AGP) is the maximum algal dry-weight biomass that can be produced in a natural water sample under standardized laboratory conditions. The growth potential is the algal biomass present at stationary phase and is expressed as milligrams dry weight of algae produced per liter of sample.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

Artesian, which means confined, is used to describe hydraulic conditions in which the water level in a well stands above the top of the aquifer tapped by the well. A flowing artesian well is one in which the water level is above the land surface.

Bacteria are microscopic unicellular organisms, typically spherical, rod-like, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, whereas others perform an essential role in nature in the recycling of materials--for example, by decomposing organic matter into a form available for reuse by plants.

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35°C. In the laboratory, these bacteria are defined as the organisms that produce colonies within 22-24 hours when incubated at 35°C ± 0.5°C on M-Endo agar medium (the nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal coliform bacteria are present in the intestine or feces of warm-blooded animals. They are often used as indicators of the sanitary quality of a water. In the laboratory, they are defined as all organisms that produce blue colonies within 20-24 hours when incubated at 44.5°C ± 0.2°C on M-FC agar medium (the nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptococcal bacteria also are present in the intestine of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria that are capable of growth in brain-heart infusion broth. In the laboratory, they are defined as all the organisms that produce red or pink colonies within 46-50 hours at 35°C ± 0.5°C on KF streptococcus agar medium (the nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Bed material is the unconsolidated material of which a streambed, lake, pond, reservoir, or estuary bottom is composed.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter, necessary for the decomposition of organic matter by microorganisms such as bacteria.

Biomass is the amount of living matter present at any given time, expressed as the mass per unit area or volume of habitat.

Ash mass is the mass, or amount of residue, present after the residue from the dry-mass determination has been ashed in a muffle furnace at a temperature of 500°C for 1 hour. The ash-mass values of zooplankton and phytoplankton are expressed in grams per cubic meter (g/m^3), and of periphyton and benthic organisms in grams per square meter (g/m^2).

Dry mass refers to the mass of residue present after drying in an oven, at 60°C for zooplankton and 105°C for periphyton, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry-mass values are expressed in the same units as ash mass.

Bottom material: See Bed material.

Cells/volume refers to the number of cells of any organism per unit volume. The cells are counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample.

Cfs-day is the volume of water represented by a flow rate of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, about 646,000 gallons, or 2,447 cubic meters.

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in a water, and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with natural water color or with carbonaceous organic pollution from sewage or industrial wastes.

Chlorophyll refers to the green pigments of plants. Chlorophyll *a* and *b* are the two most common pigments.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level water surface, and does not include bank storage.

Control designates a feature downstream from a gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Control structure as used in this report is a structure on a stream or canal that is used to regulate the flow or stage of the stream or to prevent the intrusion of salt water.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Cubic foot per second (FT^3/S, ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second, and is equivalent to approximately 7.48 gallons per second, or 448.8 gallons per minute, or 0.02832 cubic meters per second.

Discharge is the volume of water (or more broadly, the volume of fluid plus suspended sediment) that passes a given point within a given period of time.

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time.

Dissolved refers to that material in a representative water sample which passes through a 0.45-micrometer membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

Dissolved-solids concentration of water is determined either analytically by the "residue-on-evaporation" method, or mathematically by totaling the concentrations of individual constituents reported in a comprehensive chemical analysis. During the analytical determination of dissolved solids, half the bicarbonate (generally a major dissolved component of water) is converted to carbonate, and the rest is lost as carbon dioxide plus water vapor. Therefore, in the mathematical calculation of dissolved-solids concentration, the bicarbonate value, in milligrams per liter, is multiplied by 0.492 to reflect the loss and to thereby make calculated and "residue-on-evaporation" values comparable.

Diversity index is a numerical expression of evenness of distribution organisms in an aquatic community. The formula for diversity index ($\overline{d}$) is:

$$\overline{d} = -\sum_{i=1}^{s} \frac{n_i}{n} \log_2 \frac{n_i}{n} ,$$

where n_i is the number of individuals per taxon, n is the total number of individuals, and s is the total number of taxa in the sample. Diversity-index values range from zero, when all the organisms in the sample are the same, to some positive number, when some or all of the organisms in the sample are different.

Drainage area of a stream at a specific location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff normally drains by gravity into the river upstream from the specified location. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or a body of impounded surface water together with all tributary surface streams and bodies of impounded surface water.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the general term "stage," although gage height is more appropriate when used with a reading on a staff gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of hydrologic data are obtained.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline-earth ions (principally calcium and magnesium) and is expressed as equivalent calcium carbonate ($CaCO_3$).

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an 8-digit number.

Land-surface datum (LSD, lsd) is a datum plane that is approximately at land surface at each observation well.

Measuring point (MP) is an arbitrary datum point from which water levels in observation wells are measured.

Methylene blue active substance (MBAS) is a measure of apparent detergents. This determination depends on the formation of a blue color when methylene blue dye reacts with synthetic detergent compounds.

Micrograms per gram (ug/g) is a unit expressing the concentration of chemical constituents as the mass (micrograms) of the constituent per unit mass (gram) of sediment.

Micrograms per liter (UG/L, ug/L) is a unit expressing the concentration of chemical constituents in solution as the mass (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter.

Milligrams per liter (MG/L, mg/L) is a unit expressing the concentration of chemical constituents in solution as the mass (milligrams) solute per unit volume (liter) of water. Concentration of suspended sediment also is expressed in mg/L, and is based on the mass of sediment per liter of water-sediment mixture.

National Geodetic Vertical Datum of 1929 (NGVD) is a geodetic datum derived from a general adjustment of the first order level nets of both the United States and Canada. It was formerly called "Sea Level Datum of 1929" or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place.

Organism is any living entity, such as an insect, phytoplankter, or zooplankter.

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per unit area of habitat, usually a square meter (m^2), acre, or hectare. The abundances of periphyton, benthic organisms, and macrophytes are expressed in these terms.

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliliters (mL) or liters (L). Numbers of planktonic organisms can be expressed in these terms.

Total organism count is the total number of organisms collected and enumerated in any particular sample.

Partial-record station is a particular site where limited streamflow and (or) water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Particle size is the diameter, in millimeters (mm), of suspended sediment or bed material determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)	Method of analysis
Clay	0.00024 - 0.0040	Sedimentation.
Silt	.0040 - .062	Sedimentation.
Sand	.062 - 2.0	Sedimentation or sieve.
Gravel	2.0 - 64	Sieve.

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native-water analysis.

Percent composition is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of type, number, mass, or volume.

Pesticides are chemical compounds used to control undesirable plants and animals. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides. Insecticides and herbicides, which control insects and plants respectively, are the two categories reported.

Picocurie (PC, pCi) is one-trillionth (1×10^{-12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7×10^{10} radioactive disintegrations per second. A picocurie yields 2.22 disintegrations per minute.

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers.

> **Phytoplankton** is the plant part of the plankton. Phytoplankton are usually microscopic and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment, and are commonly known as algae. Their concentrations are expressed as number of cells/mL of sample.

Blue-green algae are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

Diatoms are the unicellular or colonial algae having a siliceous shell.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algal mats or floating "moss" in lakes.

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column, and are often large enough to be seen with the unaided eye. Zooplankton are secondary consumers that feed upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers.

Polychlorinated biphenyls (PCB) are industrial chemicals that are mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in structure to organochlorine insecticides.

Primary productivity is a measure of the rate at which new organic matter is formed and accumulated through photosynthetic and chemosynthetic activity of producer organisms (chiefly green plants). The rate of primary production is estimated by measuring the amount of oxygen released (oxygen method) or the amount of carbon assimilated (carbon method) by the plants.

Milligrams of carbon per area or volume per unit time [mg C/(m^2·time) for periphyton and macrophytes and mg C/(m^3·time) for phytoplankton] are units for expressing primary productivity. They define the amount of carbon dioxide consumed as measured by using radioactive carbon (carbon-14). The carbon-14 method is of greater sensitivity than the oxygen light- and dark-bottle method, and is preferred for use in unenriched waters. Unit time may be either an hour or day, depending on the incubation period.

Milligrams of oxygen per area or volume per unit time [mg O_2/(m^2·time) for periphyton and macrophytes and mg O_2/(m^3·time) for phytoplankton] are the units for expressing primary productivity. They define production and respiration rates as estimated from changes in the measured dissolved-oxygen concentration. The oxygen light- and dark-bottle method is preferred if the rate of primary production is sufficient for accurate measurements within 24 hours. Unit time may be either an hour or day, depending on the incubation period.

Runoff in inches (IN, in) indicates the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed over the entire area.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it includes chemical and biochemical precipitates, and decomposed organic material such as humus. The quantity, characteristics, and mechanisms controlling the occurrence and movement of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents, or that exists in suspension as a colloid.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed), expressed as milligrams (dry weight) of sediment per liter of water-sediment mixture (mg/L).

Suspended-sediment discharge (tons/day), also known as suspended-sediment load, is the quantity of suspended sediment, as measured by dry weight, that passes a streamflow cross section in a given time. It is computed by multiplying water discharge (in cubic feet per second) times the sediment concentration (in milligrams per liter) times the factor 0.0027.

Total sediment discharge (tons/day) is the sum of the suspended-sediment discharge and the bedload discharge. It is the total quantity of sediment, as measured by dry weight, that passes a streamflow cross section during a given time.

Mean concentration is the time-weighted concentration of sediment passing a streamflow cross section during a 24-hour day.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in micromhos per centimeter at 25°C (abbreviated "micromhos"). Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids concentration in a water. Commonly, the concentration (in milligrams per liter) is 55 to 70 percent of the specific conductance (in micromhos). This relation is not necessarily constant, even for a specific sampling site; it may vary with time in response to changes in the chemical composition of the water.

Stage-discharge relation is the relation between gage height (stage) and the volume of water flowing in a channel per unit of time.

Streamflow is the water discharge in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff" because "streamflow" may be applied to discharge regardless of whether or not it is affected by diversion or regulation.

Substrate is the physical surface upon which an organism lives.

Natural substrate refers to any naturally occurring submersed solid surface, such as a rock or tree, upon which an organism lives.

Artificial substrate is a device which is purposely placed in a stream or lake for colonization of organisms. The artificial substrate simplifies the community structure by standardizing the substrate from which each sample is taken. Examples of artificial substrates are basket samplers (made of wire cages filled with clean streamside rocks) and multi-plate samplers (made of hard-board) for collection of benthic organisms, and plexiglass strips for collection of periphyton.

Surface area of a lake or reservoir is that area outlined on the latest U.S. Geological Survey topographic map as the lake or reservoir boundary. In localities not covered by topographic maps, the areas are computed from the best maps available at the time of measurement. All areas listed in this report are those for the stage when the measured map was made.

Surficial bed material is that part of the bed material (the uppermost 0.1 to 0.2 ft) that is sampled using the U.S.-Series Bed-Material Samplers.

Suspended (as used in tables of chemical analyses) refers to that component of the water-sediment mixture that is retained on a 0.45-micrometer membrane filter. Thus, the suspended concentration is the component of total concentration that is associated with the suspended material.

Suspended, recoverable is the amount of a given constituent that is in solution after the suspended component of a water-sediment mixture has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment, and the determination thus represents something less than the total amount of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses, because different digestion procedures are likely to produce different analytical results.

In actual practice, determinations of "suspended, recoverable" concentrations may be made either (1) by analyzing portions of the material collected on the filter or, more commonly, (2) by difference, on the basis of separate determinations of dissolved and total recoverable concentrations of the constituent.

Suspended, total is the total amount of a given constituent in that part of a representative water-sediment mixture that is retained on a 0.45-micrometer membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in a sample, as well as the analytical methology used, is required to determine when the results should be reported as "suspended, total" rather than "suspended, recoverable."

Determinations of "suspended, total" concentrations are made either (1) by analyzing portions of the material collected on the filter or, more commonly, (2) by difference, on the basis of separate determinations of dissolved and total concentrations of the constituent.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchical scheme beginning with Kingdom (most general) and ending with Species (most specific) at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, Hexagenia limbata is the following:

Kingdom	Animal
Phylum	Arthropoda
Class	Insecta
Order	Ephemeroptera
Family	Ephemeridae
Genus	Hexagenia
Species	Hexagenia limbata

Thermograph is an instrument that continually and automatically records water temperature. "Temperature recorder" is the term used in this report to indicate the presence of a thermograph.

Time-weighted average is computed by multiplying the number of days in a sampling period by the concentration of an individual constituent for the corresponding period, totalling such products for several consecutive periods, and dividing that total by the number of days in the overall period. A time-weighted average represents the composition of water that would be contained in a thoroughly mixed reservoir that had received an equal quantity, each day, of the flow that passed a given sampling site during the overall period under consideration.

Tons per acre-foot indicates the dry mass of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration, in milligrams per liter, by 0.00136.

Tons per day is the quantity of substance in solution or suspension that passes a stream section during a 24-hour day.

Total load (tons) is the total quantity of any individual constituent, as measured by dry mass or volume, that is dissolved in a specific amount of water (discharge) during a given time. It is computed by multiplying the total discharge (in cubic feet per second), times the concentration (in milligrams per liter), times the factor 0.0027, times the number of days.

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentration of an individual constituent for the corresponding period, totalling such products for several consecutive periods, and dividing that total by the sum of the discharges. A discharge-weighted average represents the composition of water that would be contained in a thoroughly mixed reservoir that had received all the flow passing a given sampling site during the overall period under consideration.

WDR is used as an abbreviation for "water-data report" in the REVISED RECORDS paragraph for a gaging station to refer to the State basic-data reports published annually before 1975.

WSP is used as an abbreviation for "Water-Supply Paper" in reference to previously published reports.

DOWNSTREAM ORDER AND STATION NUMBERS

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports has been in a downstream direction along the main stream. All stations on a tributary entering upstream from a main-stream station are listed before that station. A station on a tributary that enters between two main-stream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary on which a station is situated with respect to the stream to which it is immediately tributary is indicated by an indention in the list of stations in the front of the report. Each indention represents one rank. This downstream order and system of indention show (1) which stations are on tributaries between any two stations and (2) the rank of the tributary on which each station is situated.

As an added means of identification, each hydrologic station and partial-record station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence the numbers are not consecutive. The complete 8-digit number for each station, such as 10351700, which appears just to the left of the station name, includes the 2-digit part number (10) plus the 6-digit downstream-order number (351700). In this report, the records are listed in downstream order by parts. The part number refers to an area the boundaries of which coincide with certain natural drainage lines. Records in this report are for sites in Part 9 (Colorado River basin), Part 10 (The Great Basin), and Part 13 (Snake River basin). All records for a drainage basin encompassing more than one State can be arranged in downstream order by assembling pages from the various State reports by station number.

NUMBERING SYSTEM FOR WELLS, SPRINGS, AND MISCELLANEOUS SITES

Latitude-Longitude Numbers

The 8-digit downstream-order station numbers are not assigned to wells or springs, or to miscellaneous sites where only random water-quality samples or discharge measurements are taken.

The U.S. Geological Survey numbering system for wells, springs, and miscellaneous sites is based on the grid system of latitude and longitude. The system indicates the geographic location of the site and a unique number for each site. The overall designation consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, the next 7 digits denote degrees, minutes, and seconds of longitude, and the last 2 digits (assigned sequentially) identify the site within a 1-second grid. For example, well number 414113116293802 is the second site identified for latitude 41°41'13" and longitude 116°29'38".

Local Site Numbers

Local site numbers used in Nevada locate ground-water data sites (wells or springs) by hydrographic areas and by the official rectangular subdivision of the public lands with reference to the Mt. Diablo base line and meridian. Nevada has been divided into 14 hydrographic regions or major basins and approximately 250 individual hydrographic areas or valleys. The classification is used to compile information pertaining to water resources in Nevada. The local site number uses as many as 19 digits to locate the site by hydrographic area, township, range, section, and section subdivision.

The first segment of the local site number specifies the hydrographic area as defined by Rush[1]. The remainder of the number specifies the township north or south of the Mt. Diablo base line, the range east of the Mt. Diablo meridian, the section, and the subdivision of the section. Sections are divided into quadrants labeled counterclockwise from upper right as A, B, C, and D. Each quadrant is then similarly subdivided up to as many as 3 times, depending on the accuracy of available maps; thus each section of about 640 acres may be subdivided into tracts approximately 330 ft on a side containing about 2.5 acres. Lettered quadrants are read from left to right, with the largest subdivision on the left. Sites within the smallest subdivision used are numbered sequentially with 1 digit. As an example, a well in Mason Valley (hydrographic area 108) located within NE¼NE¼SW¼SW¼ section 6, Township 13 North, Range 26 East, would have the number 108 N13 E26 06CCAA1. A second well within the same 2.5-acre tract would be numbered 108 N13 E26 06CCAA2.

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[1] Rush, F. E., 1968, Index of hydrographic areas: Nevada Department of Conservation and Natural Resources Information Report 6, 38 p.

Prior to January 1976, published local site numbers in Nevada followed the general format exemplified by 13/26-16abl, where the first number was the township north of the base line (if the township was south of the base line, the first number was followed by an "S"). The second number was the range east of the meridian, the third number was the section, and the following letter or letters and number indicated the quarter sections and sequence as defined above.

SPECIAL NETWORKS AND PROGRAMS

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

National stream-quality accounting network (NASQAN) is a data collection network designed by the U.S. Geological Survey to meet many of the information demands of agencies or groups involved in national or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated into the network design. Areal configuration of the network is based on river-basin accounting units (identified by 8-digit hydrologic-unit numbers) designated by the Office of Water Data Coordination in consultation with the Water Resources Council. Primary objectives of the network are (1) to depict areal variability of streamflow and water-quality conditions nationwide on a year-by-year basis and (2) to detect and assess long-term changes in streamflow and stream quality.

Pesticide program is a network of regularly sampled water-quality stations where samples are collected to determine the concentration and distribution of pesticides in streams where potential contamination could result from the application of the commonly used insecticides and herbicides. Operation of the network is a Federal interagency activity.

Radiochemical program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

EXPLANATION OF DATA ON SURFACE-WATER QUANTITY

Collection and Computation of Data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes and reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained either from direct readings on a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at selected intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey. These methods are described in standard textbooks, in Water-Supply Paper 888, and in U.S. Geological Survey Techniques of Water Resources Investigations, Book 3, Chapter A6.

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves. If extensions to the rating curves are necessary to indicate a greater-than-measured discharge, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, or computations of flow over dams or weirs), step-backwater techniques, velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and the yearly mean discharges are computed from the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At some stream-gaging stations the stage-discharge relation is affected by backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method, in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage situated some distance from the base gage. At some stations, the stage-discharge relation is affected by changing stage; at these stations, the rate of change in stage is used as a factor in computing discharge.

At some stream-gaging stations, the stage-discharge relation is affected by ice in the winter, and the usual methods of discharge computation cannot be used. Discharge for a period of ice effect is computed on the basis of the gage-height record and occasional winter discharge measurements. Consideration is given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same basin or in nearby basins.

For a lake or reservoir station, capacity tables giving the contents for any stage are prepared from stage-area relations defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly change in contents is computed.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys, the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some gaging stations, there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods, the daily discharges are estimated on the basis of recorded range in stage, prior and subsequent records, discharge measurements, weather records, and comparison with records for nearby stations. Likewise, daily contents may be estimated on the basis of an operator's log, prior and subsequent records, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and tabulations of daily and monthly figures. For gaging stations on streams or canals, a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs, a monthly summary table of stage and contents or a table showing the daily stage or contents is given. Tables of daily mean gage heights are included for some streamflow stations and for some reservoir stations. Records are published for the water year, which begins on October 1 and ends on September 30.

The description of the gaging station gives the location, drainage area, period of record, notations of revisions of previously published records, type and history of gages, general remarks, average discharge, and extremes of discharge or contents. The location of the gaging station and the drainage area are obtained from the most accurate maps available. River mileage, given under "LOCATION" for some stations, is that determined and used by the Corps of Engineers or other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD."

Previously published streamflow records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. To find such revised records more easily, a paragraph headed "REVISED RECORDS" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years, only one number is given; for instance, 1965 stands for the water year October 1, 1964, to September 30, 1965. If no daily, monthly, or annual figures of discharge are affected by the revision, the fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given.

The type of gage currently in use, the datum of the present gage referred to National Geodetic Vertical Datum of 1929, and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." The National Geodetic Vertical Datum of 1929 is explained in the introductory section titled "DEFINITION OF TERMS."

Information pertaining to the accuracy of the discharge records and to conditions that affect the natural flow at a gaging station is given under "REMARKS;" for reservoir stations, information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir is given under "REMARKS."

The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE;" it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. Under "EXTREMES" are given, first, the extremes for the period of record, second, information available outside the period of record, and last, those for the current year. Unless otherwise qualified, the maximum discharge (or contents) is the instantaneous maximum corresponding to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur at the same time as the maximum discharge (or contents), it is given separately. Similarly, the minimum is the instantaneous minimum unless otherwise qualified. For some stations, peak discharges are listed with EXTREMES FOR THE CURRENT YEAR; if they are, all independent peaks above the selected base, including the maximum peak for the year, are published in tabular format, with the times of occurrence and corresponding gage heights. The base discharge, which is given in the table heading, is selected so that an average of about three peaks a year will be presented. Peak discharges are not published for canals, ditches, drains, or for any stream for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time: for example, 12:30 a.m. is expressed as 0030 and 1:30 p.m. is 1330. The minimums for these stations are published in a separate paragraph following the table of peaks.

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow during the month, in cubic feet per second. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also is expressed in acre-feet (line headed "AC-FT"). In the yearly summary below the monthly summary, the figures shown are appropriate daily discharges for the calendar and water years.

For most gaging stations on lakes and reservoirs, the data presented comprise a description of the station and a monthly summary table of stage and contents. For some reservoirs, a table showing daily contents or stage is given. A skeleton table of capacity at given stages is published for all reservoirs for which records are published on a daily basis, but is not published for reservoirs for which only monthly data are given.

Data collected at partial-record stations follow the information for continuous record sites. Data for partial-record discharge stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations, and the second is a table of annual maximum stage and discharge at crest-stage stations. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. Occasionally, a series of discharge measurements is made within a short time period to investigate the seepage gains or losses along a reach of a stream or to determine the low-flow characteristics of an area. Such measurements are also given in special tables following the tables of partial-record stations.

Accuracy of Field Data and Computed Results

The accuracy of streamflow data depends primarily on (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements and (2) the accuracy of observations of stage, measurements of discharge, and interpretation of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharge values are within 5 percent of the true discharges; "good" means that about 95 percent are within 10 percent; and "fair" means that about 95 percent are within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 ft^3/s; to tenths between 1.0 and 10 ft^3/s; to whole numbers between 10 and 1,000 ft^3/s; and to 3 significant figures above 1,000 ft^3/s. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or other factors.

Publications

Water-supply papers that contain compilations of annual information on surface-water quantity in and immediately adjacent to Nevada are listed below:

	Water-supply paper		
Water year	Part 9	Part 10	Part 13
Through 1950	1313	1314	1317
1951-60	1733	1734	1737
1961-65	1926	1927	1934
1966-70	2126	2127	2134

Other Data Available

Information of a more detailed nature than that published for most of the gaging stations, such as discharge measurements, gage-height records, rating tables, and water-temperature measurements, is on file in the District Office. Also, most gaging-station records are available in computer-usable form, and many statistical analyses have been made.

Information on the availability of unpublished data or statistical analyses may be obtained from the District Office.

Records of Discharge Collected by Agencies other than the Geological Survey

Records of discharge not published by the Geological Survey were collected in Nevada at other sites during the current water year by other State and Federal agencies. The Office of Water Data Coordination, Water Resources Division, U.S. Geological Survey, Reston, VA 22090, maintains an index of these sites. Information on records at specific sites may be obtained from that office.

EXPLANATION OF WATER-QUALITY DATA

Collection and Examination of Data

Surface-water samples for analyses usually are collected at or near gaging stations. Most of the water-quality data for such sites are given immediately following the respective discharge records. Data collected at water-quality partial-record stations that do not coincide with gaging stations, and the supplemental specific-conductance and water-temperature data that are collected at gaging stations, are listed separately following the gaging-station records.

For detailed records of water quality, the descriptive heading gives: Periods of record and frequencies of determination for chemical analyses, specific conductances, biological data, microbiological data, water temperatures, and sediment data; extremes during the period of record for several specific items; extremes during the current year for items determined at least once-daily; and general remarks.

For ground-water records, no descriptive statements are given; however, the well number, depth of well, date of sampling and other pertinent data are given in the table containing the chemical analyses.

Water Analysis

Most methods for collecting and analyzing water samples are described in chapters of the U.S. Geological Survey Techniques of Water-Resources Investigations series, which are listed on a following page.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum, minimum, and (or) mean values for each constituent measured, and are based on half-hourly or hourly punches beginning at about 0030 or 0100 hours and ending at about 2400 hours for the day of record. More detailed information for such stations may be obtained from the District Office.

Water Temperature

Water temperatures are measured at all water-quality stations. In addition, water temperatures are measured at time of discharge measurements for surface-water gaging stations. For stations where water temperatures are measured once-daily by an observer, the measurements are made at about the same time each day. Large streams have a small diurnal temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where recording instruments are used, maximum and minimum temperatures for each day are published.

Sediment

Suspended-sediment concentrations are determined on samples collected by using depth-integrating samplers. Samples most commonly are obtained at several verticals in a streamflow cross section.

At many stations, suspended-sediment samples are collected only periodically. Although periodic data may represent conditions only at the time of observation, such data are useful in establishing seasonal relations between quality and streamflow, which in turn can be used to predict long-term sediment-discharge characteristics of the stream.

In addition to the records of suspended-sediment concentration, periodic measurements of particle-size distribution of the suspended sediment are also included.

Publications

Water-supply papers (WSP) that contain annual information on the quality of surface water in and immediately adjacent to Nevada are listed below:

Water year	WSP No.	Water year	WSP No.	Water year	WSP No.
1941	942	1951	1200	1961	1885
1942	950	1952	1253	1962	1945
1943	970	1953	1293	1963	1951
1944	1022	1954	1353	1964	1958
1945	1030	1955	1403	1965	1965
1946	1050	1956	1453	1966	1995
1947	1102	1957	1523	1967	2015
1948	1133	1958	1574	1968	2098
1949	1163	1959	1645	1969	2148
1950	1189	1960	1745	1970	2158

EXPLANATION OF DATA ON GROUND-WATER LEVELS

Collection of the Data

Data from the basic State-wide network of primary and secondary observation wells are published herein. Each well is identified by means of (1) a 15-digit number that is based on latitude and longitude and (2) a local well number. (See the section titled "Numbering System for Wells, Springs, and Miscellaneous Sites.")

Measurements are made in many types of wells under differing conditions of access and at different temperatures; hence, neither the method of measurement nor the equipment can be standardized. At each observation well, however, the equipment and techniques used are those that will ensure consistent measurements.

Water-level measurements in this report are given in feet with reference to land-surface datum (LSD), which is a datum plane that is approximately at land surface at each well. If known, the altitude of the land-surface datum above sea level is given in the well description. For primary observation wells, the height of the measuring point above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day and the end of each month (EOM).

The accuracy of water levels depends on several factors. For example, in a measurement of a depth to water of several hundred feet, the error in determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in determining the net change of water level between successive measurements may be only a few hundredths of a foot. For lesser depths to water, the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot.

Publications

In 1945, the Geological Survey and the office of the Nevada State Engineer entered into a cooperative agreement to investigate the ground-water resources of Nevada. Water-level measurements prior to 1946 are contained in Water Resources Bulletin 3 of the Nevada State Engineer. Subsequent data for Nevada and adjacent areas through 1974 appear in the following water-supply papers (WSP):

Calendar year	WSP No.	Calendar year	WSP No.
1946-50	1170	1955	1409
1951	1196	1956-60	1770
1952	1226	1961-65	1855
1953	1270	1966-70	2010
1954	1326	1971-74	2162

WATER-RELATED REPORTS FOR NEVADA RELEASED BY THE GEOLOGICAL SURVEY DURING WATER YEAR 1980

Black Rock Desert, northwestern Nevada: "Principal facts for gravity stations in the western arm of the Black Rock Desert, Nevada," by D. H. Schaefer and D. K. Maurer; U.S. Geological Survey Open-File Report 80-577, 15 p.

Carson Valley, Douglas Co.: "Sediment transport model for the East Fork of the Carson River, Carson Valley, Nevada," by Terry Katzer and J. P. Bennett; U.S. Geological Survey Open-File Report 80-160, 35 p.

Devils Hole, Nye Co.: "Water-resources data collected in the Devils Hole area, Nye County, Nevada, 1977-78," by R. L. Carson; U.S. Geological Survey Open-File Report 80-772, 15 p.

Las Vegas Valley, Clark Co.: "Water-level changes associated with ground-water development in Las Vegas Valley, Nevada, March 1977 to March 1978," by D. B. Wood; Nevada Division of Water Resources Information Report 29, 38 p.

Lemmon Valley, Washoe Co.: "Principal facts for gravity stations in Lemmon Valley, Washoe County, Nevada," by D. H. Schaefer and D. K. Maurer; U.S. Geological Survey Open-File Report 80-71, 9 p.

Rainier Mesa, Nye Co.: "The effect of dissolution of volcanic glass on water chemistry in a volcanic aquifer, Rainier Mesa, Nevada," by A. F. White, H. C. Claassen, and Larry Benson; U.S. Geological Survey Water-Supply Paper 1535-Q, 34 p.

Southern Nevada: "Paleohydrology of the southern Great Basin, with special reference to water table fluctuations beneath the Nevada Test Site during the Late (?) Pleistocene," by I. J. Winograd and G. C. Doty; U.S. Geological Survey Open-File Report 80-569, 91 p.

Spring Mountains, Clark Co.: "Data on ground-water resources of the Spring Mountains area, Toiyabe National Forest, Nevada," by W. D. Nichols and L. E. Davis; U.S. Geological Survey Open-File Report 79-1638, 16 p.

Steamboat Springs, Washoe Co.: "Geochemistry of Steamboat Springs, Nevada," by N. L. Nehring; U.S. Geological Survey Open-File Report 80-887, 61 p.

Topopah Wash basin, Nye Co.: "Flood potential of Topopah Wash and tributaries, eastern part of Jackass Flats, Nevada Test Site, southern Nevada," by R. C. Christensen and N. E. Spahr; U.S. Geological Survey Open-File Report 80-963, 22 p.

Truckee and Carson River basins, western Nevada and eastern California: "Planning and design of studies for river-quality assessment in the Truckee and Carson River basins, California and Nevada," by J. O. Nowlin, W. M. Brown III, L. H. Smith, and R. J. Hoffman; U.S. Geological Survey Open-File Report 80-435, 75 p.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

Thirty-five manuals by the U.S. Geological Survey have been published to date in the series describing techniques for planning and executing specialized work in water-resources investigations. The material is grouped under major subject s headingcalled books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) is concerned with surface water. Each chapter within a section is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises. Most of the reports listed below are for sale by the U.S. Geological Survey, Eastern Distribution Branch, Text Products Section, 604 S. Pickett St., Alexandria, VA 22304.

NOTE: When ordering any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations."

1-D1. *Water temperature--influential factors, field measurement, and data presentation*, by H. H. Stevens, Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages.
1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W. W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages.
2-D1. *Application of surface geophysics to ground-water investigations*, by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages.
2-E1. *Application of borehole geophysics to water-resources investigations*, by W. S. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages.
3-A1. *General field and office procedures for indirect discharge measurements*, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.
3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.
3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.
3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages.
3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages.
3-A6. *General procedure for gaging streams*, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6, 1968. 13 pages.
3-A7. *Stage measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.
3-A8. *Discharge measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.
3-A11. *Measurement of discharge by moving-boat method*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages.
3-A12. *Fluorometric procedures for dye tracing*, by J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A12. 1968. 31 pages.
3-B1. *Aquifer-test design, observation, and data analysis*, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages.
3-B2. *Introduction to ground-water hydraulics, a programed text for self-instruction*, by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.
3-C1. *Fluvial sediment concepts*, by H. P. Guy: USGS--TWRI Book 3, Chapter C1, 1970. 55 pages.
3-C2. *Field methods for measurement of fluvial sediment*, by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages.
3-C3. *Computation of fluvial-sediment discharge*, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages.
4-A1. *Some statistical tools in hydrology*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.
4-A2. *Frequency curves*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages.
4-B1. *Low-flow investigations*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages.
4-B2. *Storage analyses for water supply*, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages.
4-B3. *Regional analyses of streamflow characteristics*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.
4-D1. *Computation of rate and volume of stream depletion by wells*, by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages.
5-A1. *Methods for determination of inorganic substances in water and fluvial sediments*, by M. W. Skougstad and others, editors: USGS--TWRI Book 5, Chapter A1. 1979. 626 pages.
5-A2. *Determination of minor elements in water by emission spectroscopy*, by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2, 1971. 31 pages.
5-A3. *Methods for analysis of organic substances in water*, by D. F. Goerlitz and Eugene Brown: USGS--TWRI Book 5, Chapter A3. 1972. 40 pages.
5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples*, by P. E. Greeson and others, editors: USGS--TWRI Book 5, Chapter A4. 1977. 322 pages.
5-A5. *Methods for determination of radioactive substances in water and fluvial sediments*, by L. L. Thatcher, V. J. Janzer, and K. W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages.
5-C1. *Laboratory theory and methods for sediment analysis*, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.
7-C1. *Finite difference model for aquifer simulation in two dimensions with results of numerical experiments*, by P. C. Trescott, G. F. Pinder, and S. P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages.
7-C2. *Computer model of two-dimensional solute transport and dispersion in ground water*, by L. F. Konikow and J. D. Bredehoeft: USGS--TWRI Book 7, Chapter C2. 1978. 90 pages.
8-A1. *Methods of measuring water levels in deep wells*, by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages.
8-B2. *Calibration and maintenance of vertical-axis type current meters*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages.

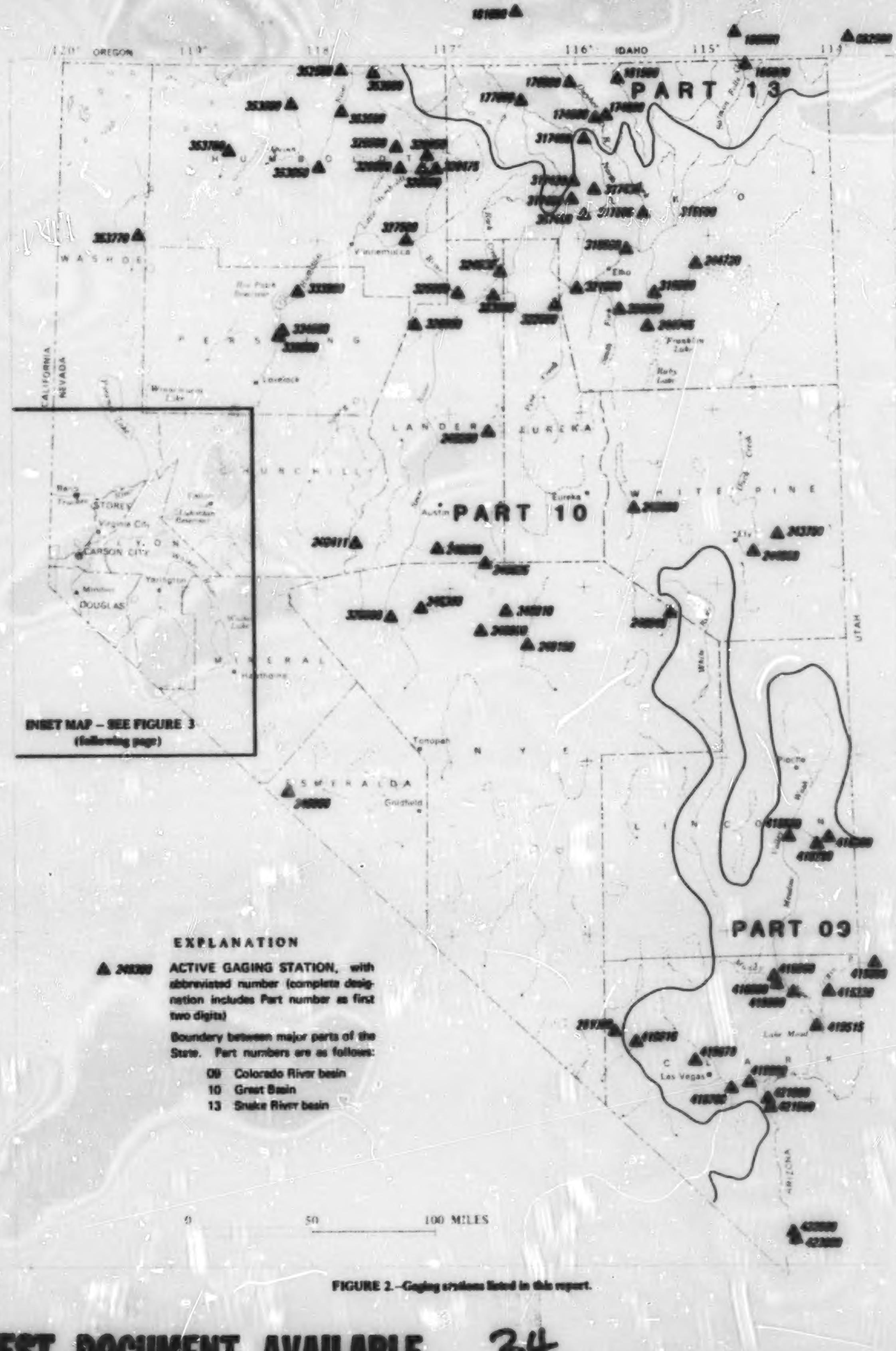
OREGON
IDAHO
120°
119°
118°
117°
116°
115°
114°
42°
41°
40°
39°
38°
37°
36°
PART 13
PART 10
PART 09
CALIFORNIA
NEVADA
UTAH
ARIZONA
WASHOE
HUMBOLDT
ELKO
PERSHING
CHURCHILL
LANDER
EUREKA
WHITE PINE
STOREY
LYON
CARSON CITY
DOUGLAS
MINERAL
NYE
ESMERALDA
LINCOLN
CLARK
Winnemucca
Lovelock
Elko
Austin
Eureka
Ely
Tonopah
Goldfield
Hawthorne
Reno
Virginia City
Yerington
Pioche
Las Vegas
Lake Mead
Franklin Lake
Ruby Lake
Walker Lake
INSET MAP – SEE FIGURE 3
(following page)
EXPLANATION
▲ 249300 ACTIVE GAGING STATION, with abbreviated number (complete designation includes Part number as first two digits)
Boundary between major parts of the State. Part numbers are as follows:
09 Colorado River basin
10 Great Basin
13 Snake River basin
0
50
100 MILES

FIGURE 2.–Gaging stations listed in this report.

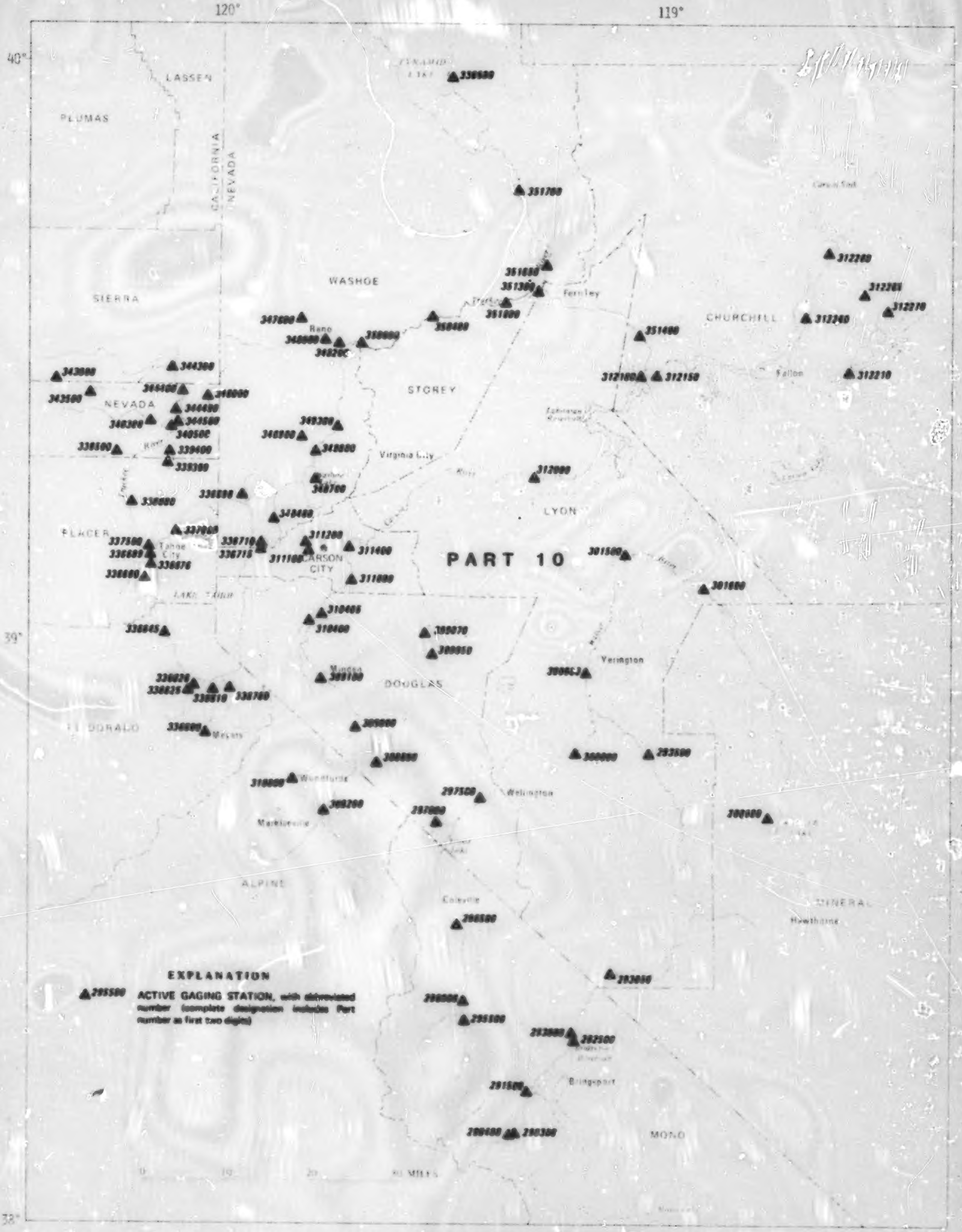
120°
119°
40°
39°
38°
PYRAMID LAKE
338500
LASSEN
PLUMAS
CALIFORNIA
NEVADA
351700
Carson Sink
312200
351650
351300
Fernley
312265
312270
WASHOE
SIERRA
351000
CHURCHILL
312240
347600
Reno
348000
349200
350000
350400
351400
344300
343000
343500
344400
346000
312100
312150
Fallon
312210
STOREY
NEVADA
346400
346500
348300
340500
349300
348900
349800
338500
339400
339300
Virginia City
312000
336890
348700
336800
348400
LYON
PLACER
337000
337500
336710
336715
311200
311100
311400
CARSON CITY
Tahoe City
336800
336870
336600
PART 10
301500
301600
311000
LAKE TAHOE
310405
310400
336645
309070
309050
Yerington
300500
336020
336825
336610
336700
309100
Minden
DOUGLAS
EL DORADO
336600
Meyers
309000
300000
293500
308850
310000
Woodfords
297500
Wellington
308200
297000
Markleeville
288600
ALPINE
MINERAL
Coleville
Hawthorne
296500
293850
EXPLANATION
295500 ACTIVE GAGING STATION, with abbreviated number (complete designation includes Part number as first two digits)
296000
295500
293800
292500
Bridgeport
291500
290400
290300
MONO
0
10
20
30 MILES

FIGURE 3.--Gaging stations in west-central Nevada.

35

BEST DOCUMENT AVAILABLE

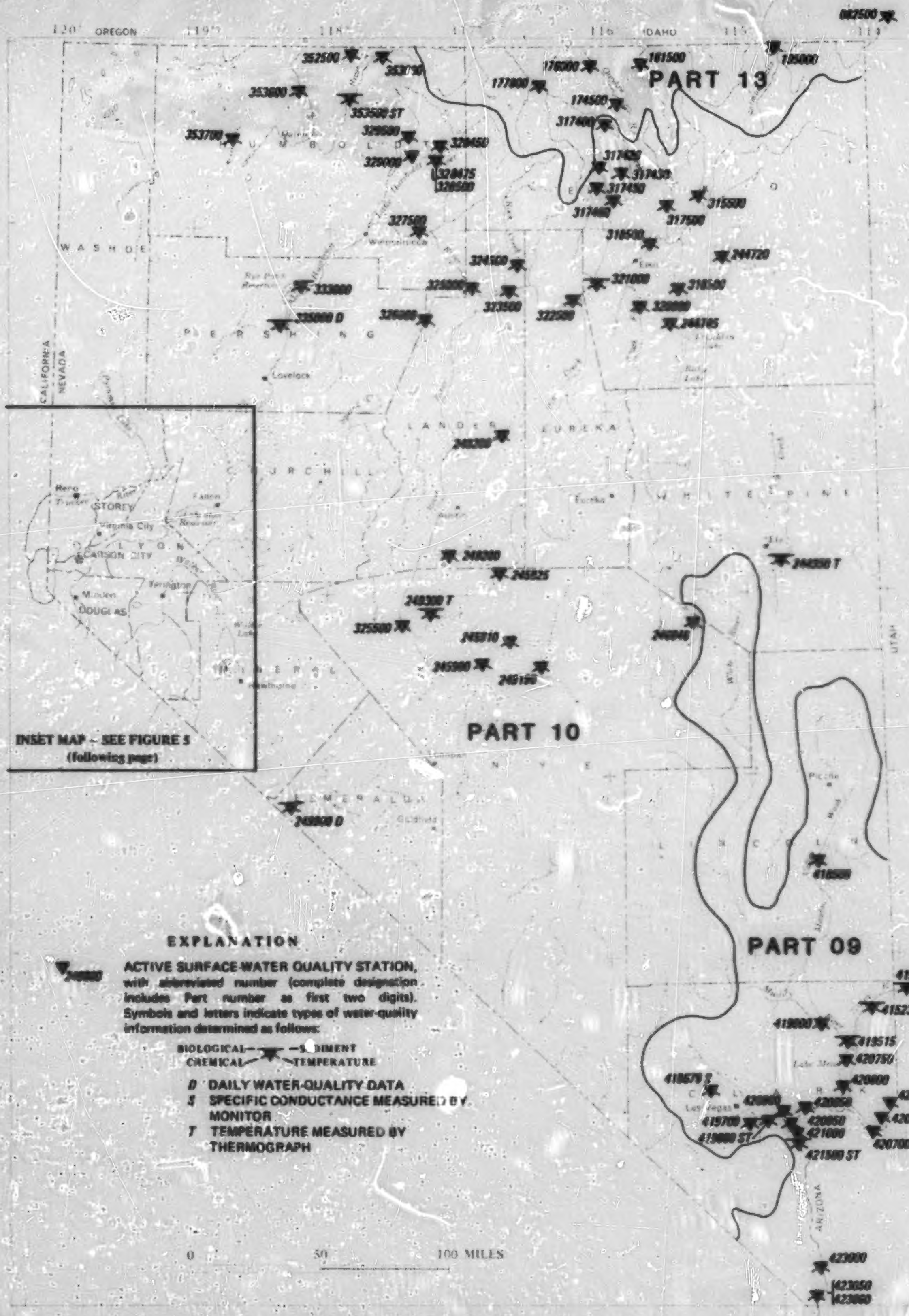
082500
OREGON
IDAHO
PART 13
352500
353600
353500 ST
353700
329500
329450
329000
328475
328500
176000
161500
185000
177800
174500
317400
317420
317430
317450
317460
315500
317500
327500
318500
324500
244720
325000
323500
322500
321000
318500
320000
244765
333000
335000 D
326500
WASHOE
PERSHING
HUMBOLDT
CALIFORNIA
NEVADA
Lovelock
Winnemucca
LANDER
EUREKA
CHURCHILL
WHITE PINE
Eureka
Austin
248200
248300
245825
244350 T
249300 T
325500
245810
245900
245190
249940
MINERAL
Hawthorne
NYE
ESMERALDA
249800 D
Reno
Truckee
STOREY
Virginia City
Fallon
CARSON CITY
LYON
Yerington
Minden
DOUGLAS
INSET MAP – SEE FIGURE 5 (following page)
PART 10
LINCOLN
Pioche
418500
PART 09
UTAH
ARIZONA
415000 D
415230 D
419000
419515
420750
420800
419670 S
420600
420850
420650
419700
419800 ST
421000
420700
421500 ST
Las Vegas
Lake Mead
423000
423050
423060
0 50 100 MILES
EXPLANATION
249800
ACTIVE SURFACE-WATER QUALITY STATION, with abbreviated number (complete designation includes Part number as first two digits). Symbols and letters indicate types of water-quality information determined as follows:
BIOLOGICAL
SEDIMENT
CHEMICAL
TEMPERATURE
D DAILY WATER-QUALITY DATA
S SPECIFIC CONDUCTANCE MEASURED BY MONITOR
T TEMPERATURE MEASURED BY THERMOGRAPH

FIGURE 4.–Surface-water quality stations listed in this report.

36

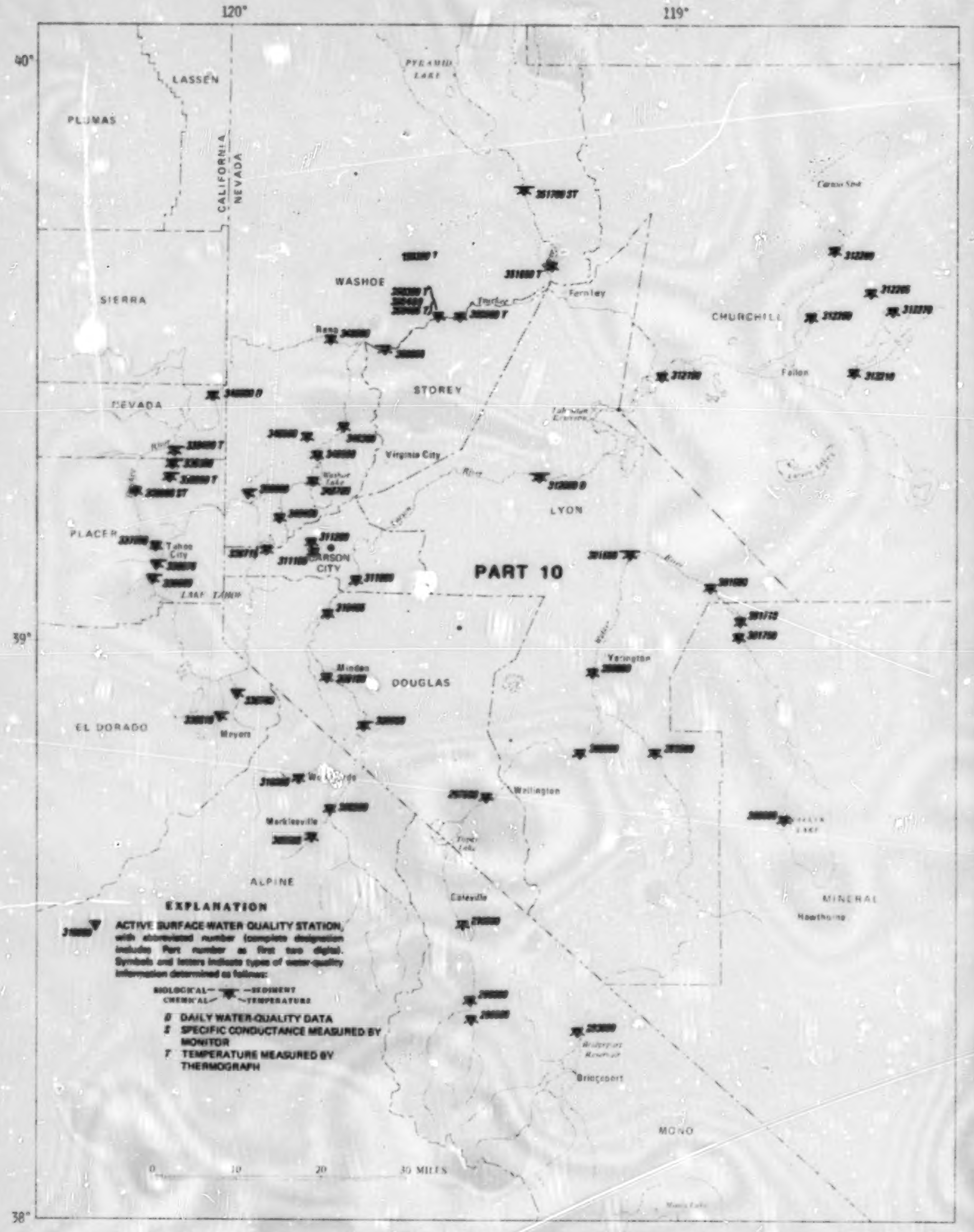
120°
119°
40°
39°
38°
LASSEN
PLUMAS
CALIFORNIA
NEVADA
SIERRA
PYRAMID LAKE
Carson Sink
WASHOE
Fernley
CHURCHILL
Reno
Fallon
STOREY
NEVADA
Virginia City
Washoe Lake
PLACER
Tahoe City
CARSON CITY
LYON
PART 10
LAKE TAHOE
Yerington
Minden
DOUGLAS
EL DORADO
Meyers
Woodfords
Wellington
Markleeville
ALPINE
Walker Lake
Topaz Lake
MINERAL
Hawthorne
Coleville
Bridgeport Reservoir
Bridgeport
MONO
Mono Lake
0
10
20
30 MILES
EXPLANATION
ACTIVE SURFACE WATER QUALITY STATION, with abbreviated number (complete designation includes Part number as first two digits). Symbols and letters indicate types of water-quality information determined as follows:
BIOLOGICAL
CHEMICAL
SEDIMENT
TEMPERATURE
D DAILY WATER-QUALITY DATA
S SPECIFIC CONDUCTANCE MEASURED BY MONITOR
T TEMPERATURE MEASURED BY THERMOGRAPH

FIGURE 5.—Surface-water quality stations in west-central Nevada.

COLORADO RIVER BASIN

VIRGIN RIVER BASIN

09415000 VIRGIN RIVER AT LITTLEFIELD, AZ

LOCATION.--Lat 36°53'30", long 113°55'25", in SW¼SW¼ sec.6, T.40 N., R.15 W., Mohave County, Hydrologic Unit 15010010, on right bank 0.5 mi (0.8 km) downstream from Beaver Dam Wash, 0.4 mi (0.6 km) upstream from Littlefield, and 36 mi (58 km) upstream from waterline of Lake Mead at elevation 1,221 ft (372.2 m) National Geodetic Vertical Datum of 1929.

DRAINAGE AREA.--5,090 mi^2 (13,200 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1929 to current year.

REVISED RECORDS.--WSP 959: 1932. WSP 979: 1930-31, 1933-37. WSP 1313: 1940 (M).

GAGE.--Water-stage recorder. Datum of gage is 1,763.68 ft (537.570 m) National Geodetic Vertical Datum of 1929. Prior to May 28, 1933, nonrecording gage at site 300 ft (91 m) upstream and May 28, 1933, to Nov. 7, 1939, at same site, both at datum 2.53 ft (0.771 m) higher. Nov. 8, 1939, to Mar. 31, 1962, nonrecording gage at same site at datum 2.00 ft (0.610 m) higher. Apr. 1, 1962, to Sept. 30, 1970, water-stage recorder at same site at same datum. Oct. 1, 1970 to Aug. 7, 1979 at site 300 ft (91 m) upstream at same datum.

REMARKS.--Records poor. Diversion above station for irrigation of about 23,200 acres (93.9 km^2).

AVERAGE DISCHARGE.--51 years, 235 ft^3/s (6.655 m^3/s), 170,300 acre-ft/yr (210 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 35,200 ft^3/s (997 m^3/s) Dec. 6, 1966, gage height, 15.66 ft (4.773 m), site then in use, from rating curve extended above 1,500 ft^3/s (42.5 m^3/s) on basis of slope-area measurement of peak flow; minimum, 38 ft^3/s (1.08 m^3/s) May 1, 10, 1975.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,000 ft^3/s (85 m^3/s) and maximum (*)

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 30	2000	4,720	134	8.53	2.600	Feb. 20	1000	*10,380	294	11.69	3.563
Feb. 15	0200	9,550	270	11.27	3.435	Sept. 10	1000	7,380	209	10.10	3.078

Minimum daily discharge, 65 ft^3/s (1.84 m^3/s) Oct. 1-4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	137	173	195	967	834	653	1710	767	200	98	85
2	65	143	176	207	810	779	447	1640	755	330	90	83
3	65	140	184	203	726	771	429	1590	767	250	180	80
4	65	140	219	187	633	803	418	1620	778	200	132	78
5	77	156	191	187	386	675	459	1850	773	160	98	82
6	73	149	199	199	592	675	580	1990	767	155	80	80
7	75	146	199	199	459	771	704	1990	738	180	78	80
8	75	159	199	167	423	1010	667	1950	698	310	78	601
9	75	203	203	191	342	1030	606	1920	650	240	78	908
10	71	211	203	240	293	1050	668	1780	640	205	78	3750
11	71	207	203	530	344	892	789	1660	630	180	78	937
12	77	207	195	660	227	736	726	1520	570	160	78	360
13	77	184	203	700	219	779	613	1370	520	140	78	250
14	98	175	195	1110	1960	761	613	1320	460	125	78	205
15	98	180	190	2100	7230	734	690	1610	430	112	95	175
16	95	180	190	540	4030	668	834	1460	390	105	103	165
17	90	175	185	299	4190	661	961	1520	350	98	88	135
18	93	180	185	953	5690	640	992	1580	320	92	80	130
19	88	175	185	1190	5990	633	1130	1590	310	90	78	119
20	88	180	180	515	8780	626	1320	1600	290	88	75	103
21	105	175	185	332	7000	620	1550	1630	275	85	75	123
22	128	170	190	293	3800	613	1700	1620	260	84	75	118
23	111	170	195	266	3000	586	1380	1640	250	84	75	116
24	111	175	200	244	2500	560	1010	1380	240	84	85	114
25	119	175	200	231	2200	573	834	1330	224	85	141	113
26	111	170	205	249	1780	561	1070	1170	209	88	428	120
27	113	170	207	240	1200	535	1400	991	177	98	205	120
28	113	173	207	240	925	522	1800	879	164	101	123	120
29	119	156	187	1810	859	509	1810	796	154	88	95	120
30	122	169	184	2730	---	477	1750	778	147	83	85	120
31	128	---	191	1330	---	471	---	769	---	85	83	---
TOTAL	2861	5130	6008	18536	67565	21535	28363	46053	13703	4385	3291	9570
MEAN	92.3	171	194	598	2330	695	945	1486	457	141	106	319
MAX	128	211	219	2730	8780	1050	1810	1990	778	330	428	3750
MIN	65	137	173	187	219	471	418	769	147	83	75	78
AC-FT	5670	10180	11920	36770	134000	42710	56260	91350	27180	8700	6530	18980

CAL YR 1979 TOTAL 153903 MEAN 422 MAX 2440 MIN 63 AC-FT 305300
WTR YR 1980 TOTAL 227000 MEAN 620 MAX 8780 MIN 65 AC-FT 450300

09415000 VIRGIN RIVER AT LITTLEFIELD, AZ--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1947 to current year.
CHEMICAL ANALYSES: July 1949 to September 1969, once-daily (composited); October 1969 to current year, monthly.
SPECIFIC CONDUCTANCES AND WATER TEMPERATURES: October 1947 to current year, once-daily.
BIOLOGICAL DATA: October 1977 to September 1979, twice-yearly.
MICROBIOLOGICAL DATA: November 1977 to October, 1979, monthly.
SEDIMENT DATA: October 1947 to September 1968, once-daily; September 1977 to November 1979, monthly.

REMARKS.--Streamflow is not completely homogenous chemically from bank to bank. Flow adjacent to north bank is generally somewhat more dilute than average; monthly data collected during June 1975-September 1976 indicate that specific conductance off north bank was 93 to 100 percent of stream-wide average (range of discharge, 60-230 ft^3/s). This doubtless affects specific conductance of daily samples, which are collected off north bank. Water temperature characteristically shows little or no variation from bank to bank. Much of day-to-day fluctuation in water temperature prior to August 1975 was due to measurement at different times of day (rather than at about the same time each day). Detailed sampling information for period since June 1975 is available from U.S. Geol. Survey office, Carson City, Nev.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 4,650 micromhos Aug. 21, 1966; minimum, 685 micromhos May 12, 1973.
FECAL STREPTOCOCCI: Maximum, 46,000 colonies/100 mL (non-ideal colony count) Jan. 25, 1978; minimum, 110 colonies/100 mL Aug. 28, 1979.
WATER TEMPERATURES: Maximum, 33.5°C July 7, 1953; minimum, 2.0°C Jan. 4, 1949, Jan. 4, 1950, Jan. 4, 5, 1971.
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 247,000 mg/L Aug. 14, 1964; minimum, 40 mg/L June 16, 20, 1962.

EXTREMES FOR CURRENT YEAR (MEASUREMENTS AT LEAST ONCE-DAILY).--
SPECIFIC CONDUCTANCES: Maximum, 3,920 micromhos Aug. 15; minimum, 732 micromhos May 9.
WATER TEMPERATURES: Maximum, 32.5°C July 22; minimum, 9.0°C on several days during January and February.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (JTU)	OXYGEN, DISSOLVED (MG/L)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)
OCT 31...	1030	122	3280	7.6	16.0	54	9.1	280	1500	1300	340	110
NOV 28...	1100	162	2910	7.8	11.5	--	--	--	--	1000	270	90
DEC 27...	1300	213	2660	7.8	13.0	--	--	--	--	930	240	80
JAN 30...	1100	2880	887	7.8	8.0	--	--	--	--	300	86	21
FEB 28...	1100	871	1930	7.8	12.0	--	--	--	--	820	200	77
MAR 27...	1000	531	1940	7.8	13.0	--	--	--	--	700	170	66
APR 23...	0945	1370	904	7.8	11.5	--	--	--	--	360	95	29
MAY 28...	1215	865	1110	7.8	23.0	--	--	--	--	420	110	36
JUN 25...	0730	229	2320	7.8	20.0	--	9.4	--	--	870	230	71
JUL 29...	0815	87	3290	7.8	24.0	--	7.4	--	--	1300	350	110
AUG 26...	1015	539	2530	7.7	23.0	--	7.5	--	--	1200	350	70
SEP 25...	1000	103	3410	8.0	20.5	--	8.0	--	--	1400	370	110

09415000 VIRGIN RIVER AT LITTLEFIELD, AZ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
OCT 31...	320	3.9	29	--	--	290	990	410	.9	21	2200
NOV 28...	270	3.6	24	350	0	290	820	360	.8	20	1960
DEC 27...	230	3.3	21	--	--	280	710	330	.8	20	1790
JAN 30...	72	1.8	7.1	--	--	--	250	80	.3	14	591
FEB 28...	140	2.1	13	330	0	270	690	140	.5	17	1450
MAR 27...	150	2.5	13	300	0	250	590	180	.5	19	1400
APR 23...	49	1.1	6.1	--	--	--	200	62	.3	13	601
MAY 28...	83	1.8	9.3	270	0	220	250	100	--	14	814
JUN 25...	190	2.8	20	280	0	230	630	260	.7	18	1630
JUL 29...	270	3.2	28	350	0	280	1100	390	.9	13	2470
AUG 26...	160	2.0	17	--	--	--	1100	180	.5	8.7	2030
SEP 25...	280	3.3	28	370	0	300	1100	440	.9	20	2540

DATE	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
OCT 31...	--	725	--	--	--	--	--	--	--	--	--
NOV 28...	2030	857	--	--	--	--	--	--	--	--	--
DEC 27...	--	1030	--	--	--	--	--	--	--	--	--
JAN 30...	--	4600	.36	.02	.04	.04	2.8	.58	3.2	5.2	.06
FEB 28...	1440	3410	--	--	--	--	--	--	--	--	--
MAR 27...	1340	2010	--	--	--	--	--	--	--	--	--
APR 23...	--	2220	.49	.04	.01	.00	2.6	.38	3.1	1.3	.01
MAY 28...	740	1900	--	--	--	--	--	--	--	--	--
JUN 25...	1560	1010	--	--	--	--	--	--	--	--	--
JUL 29...	2430	580	.76	.01	.01	.00	1.2	.85	2.0	.19	.03
AUG 26...	--	2950	--	--	--	--	--	--	--	--	--
SEP 25...	2530	706	--	--	--	--	--	--	--	--	--

09415000 VIRGIN RIVER AT LITTLEFIELD, AZ--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)
OCT							
31...	1030	9	300	930	20	8	4

DATE	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT						
31...	90	3	20	.2	1	10

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
OCT				
31...	1030	122	478	157
NOV				
28...	1100	162	731	320

09415000 VIRGIN RIVER AT LITTLEFIELD, AZ--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3330	3090	2870	2640	1640	1800	1940	1060	1240	2510	2910	3230
2	3350	3060	2870	2610	1770	1850	1970	912	1240	2020	3040	3230
3	3350	3040	2870	2590	1830	1940	2080	937	1240	2000	2540	3230
4	3350	3040	2770	2640	1890	1500	2100	867	1200	2430	2790	3130
5	3360	2980	2770	2640	2100	1730	2080	748	1200	2410	2950	3130
6	3350	3040	2770	2610	2100	1770	1920	770	1200	2540	3080	3130
7	3300	2960	2770	2630	2100	1440	1670	776	1200	2540	3040	3130
8	3360	2970	2740	2700	2080	1410	1670	797	1360	2200	3120	2470
9	3360	3030	2770	2700	2080	1410	1640	732	1360	2170	3000	3030
10	3360	2630	2780	2580	2160	1500	1570	839	1360	2450	3080	2900
11	3360	2660	2800	1610	2300	1490	1400	897	1440	2590	3080	2860
12	3360	2700	2770	1850	2300	1490	1500	977	1500	2700	3120	2900
13	3360	2710	2760	1110	[illegible]	1490	1550	1010	1540	2760	3120	2940
14	3350	2750	2760	1230	1580	1740	1520	1030	1640	2770	3120	2990
15	3250	2870	2740	1510	913	1760	1450	870	1540	2740	3780	3030
16	3360	2790	2710	1510	913	1740	1240	959	1760	2880	3230	3130
17	3270	2840	2700	1830	977	1740	1200	863	1820	2980	3380	3170
18	2720	2810	2720	1480	824	1850	1080	770	1790	3050	3340	3280
19	3310	2740	2720	1100	955	1900	1030	779	1870	3070	3270	3330
20	3350	2730	2720	1620	1170	1900	1010	765	2000	3050	3180	3280
21	3340	2730	2690	[illegible]	1340	1840	943	740	2000	3060	3180	3280
22	3140	2690	2620	2040	1340	1770	943	740	2040	3140	3180	3230
23	3120	2740	2530	2150	1450	1850	985	809	2120	3110	3250	3230
24	3150	2800	2620	2170	1620	1850	1080	1160	2300	3070	3180	3280
25	3170	2800	2670	2190	1740	1820	1080	1160	2260	3240	2020	3280
26	3160	2810	2580	2170	1780	1850	1010	1160	2300	3110	3020	3280
27	3140	2800	2590	2180	1780	1920	943	1160	2490	3110	2500	3260
28	3150	2840	2640	2180	1910	1850	923	1180	2490	3070	2970	3230
29	3710	2920	2640	1070	1840	1850	923	1230	2580	3120	3180	3230
30	3200	2840	2670	860	---	1940	985	1260	2650	3140	3290	3280
31	3150	---	2650	1230	---	1890	---	1240	---	3140	3290	---
MEAN	3270	2850	2720	1980	1680	1740	1380	942	1750	2780	3040	3140

WTR YR 1980 MEAN 2280 MAX 3920 MIN 732

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26.0	18.0	12.5	12.0	11.0	12.0	13.0	17.0	21.0	26.5	31.0	28.0
2	26.0	18.0	13.0	12.0	11.5	13.0	15.0	19.0	22.5	29.0	29.0	26.5
3	25.5	17.5	13.0	11.0	12.0	12.0	16.5	19.5	22.0	27.0	28.5	28.0
4	26.0	17.0	14.0	11.0	13.0	12.0	17.0	20.0	22.5	26.0	28.0	30.0
5	26.0	17.0	14.0	11.5	12.0	12.0	17.0	20.0	23.0	26.0	27.5	30.5
6	25.0	17.0	14.0	12.0	11.0	13.0	19.0	18.0	22.0	26.0	28.0	28.0
7	25.0	17.0	15.0	12.0	11.0	13.5	17.0	16.0	23.0	25.0	29.0	27.0
8	26.0	17.0	15.0	13.0	11.0	13.5	17.0	18.0	25.0	27.5	30.0	26.0
9	25.0	16.0	15.0	14.0	11.0	13.5	18.0	16.0	25.0	28.0	28.0	23.5
10	25.0	15.0	15.0	14.0	11.0	14.0	18.0	15.0	27.0	27.0	31.5	24.0
11	24.0	15.0	11.0	9.0	12.0	14.0	15.0	15.0	25.0	27.5	31.5	24.0
12	24.0	15.0	10.0	11.0	12.0	14.0	18.0	17.0	23.5	27.0	30.0	25.0
13	24.0	15.5	10.0	11.0	12.0	14.0	18.0	17.0	23.0	27.0	30.0	24.0
14	22.0	15.5	10.0	12.0	11.5	15.0	17.5	17.0	25.0	28.0	28.0	24.0
15	23.0	15.0	10.0	12.0	10.0	15.0	18.0	17.5	25.0	29.0	26.5	25.0
16	23.0	14.0	11.0	12.0	10.0	12.0	19.0	20.0	26.0	29.0	29.0	26.5
17	23.0	15.0	12.0	12.0	10.0	12.5	19.0	20.0	25.5	30.0	27.0	26.5
18	22.0	15.0	12.0	11.0	12.0	13.0	19.0	20.0	25.0	28.5	26.5	25.5
19	21.0	12.0	13.0	9.0	11.5	15.0	19.0	20.0	27.0	29.0	27.0	23.0
20	19.5	12.0	13.0	9.0	9.0	15.5	18.0	22.5	26.0	30.5	29.0	25.0
21	19.0	12.0	13.0	9.0	10.5	14.0	16.0	22.0	25.0	31.0	28.0	23.0
22	20.0	12.0	12.0	10.0	10.5	12.0	13.5	21.0	25.0	32.5	25.0	23.0
23	21.0	13.0	11.0	10.0	13.0	15.0	14.5	18.5	25.0	30.0	27.0	25.0
24	21.0	13.0	12.0	11.0	12.0	14.0	16.0	17.0	25.0	31.0	26.0	25.0
25	21.0	14.0	13.0	12.0	12.5	14.0	19.0	18.0	25.0	31.0	27.0	25.0
26	21.0	14.5	12.0	12.0	13.0	15.0	19.5	20.0	25.0	30.0	27.5	25.0
27	20.5	12.5	12.0	12.0	13.5	15.0	19.0	20.0	29.0	29.0	26.0	25.0
28	20.0	11.0	11.0	12.0	14.0	14.0	17.0	20.5	28.0	30.0	25.0	27.0
29	15.0	11.5	11.0	10.0	13.0	15.0	15.5	21.0	30.0	30.0	26.0	28.0
30	16.0	11.5	10.0	9.0	---	13.0	18.0	21.5	30.0	28.0	26.0	29.0
31	18.0	---	10.0	9.0	---	14.0	---	21.0	---	30.0	26.0	---
MEAN	22.5	14.5	12.0	11.0	11.5	13.5	17.0	19.0	25.0	28.5	28.0	26.0

WTR YR 1980 MEAN 19.0 MAX 32.5 MIN 9.0

BEST DOCUMENT AVAILABLE

09415230 VIRGIN RIVER ABOVE HALFWAY WASH NEAR RIVERSIDE, NV

(National stream-quality accounting network station)

LOCATION.--Lat 36°40'28", long 114°17'54", in NE¼SW¼NE¼ sec.32, T.14 S., R.69 E., Clark County, Hydrologic Unit 15010010, on left bank, 1.3 mi (2.1 km) upstream from Halfway Wash and 6.1 mi (9.8 km) southeast of Riverside, and 7.5 mi (12.1 km) upstream from waterline of Lake Mead at elevation 1,221 ft (372.2 m), National Geodetic Vertical Datum of 1929.

DRAINAGE AREA.--5,980 mi^2 (15,490 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1977 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,320 ft (402 m), from topographic map. Prior to Sept. 27, 1979, at site 0.5 mi (0.8 km) downstream at different datum.

REMARKS.--Records poor, no gage height record March 9 to April 23. Diversion above station for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 16,000 ft^3/s (453 m^3/s) Mar 5, 1978, gage height 6.60 ft (2.012 m); no flow several days most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12,270 ft^3/s (347 m^3/s) Feb. 20, gage height, 7.92 ft (2.414 m); minimum daily, 17 ft^3/s (0.48 m^3/s) Oct. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	138	182	220	464	765	455	1600	694	127	39	57
2	17	156	182	220	502	808	445	1580	646	153	61	61
3	22	165	193	230	592	744	425	1420	636	175	82	30
4	25	159	193	233	541	865	415	1420	627	153	127	41
5	25	169	190	233	583	780	450	1560	646	132	102	55
6	30	165	165	260	609	740	540	1990	627	122	74	42
7	31	156	175	229	541	724	680	1820	541	122	55	114
8	18	156	168	212	517	713	640	1730	549	141	52	465
9	25	165	182	216	558	800	610	1730	517	e159	51	1240
10	29	208	162	172	494	860	660	1690	494	141	50	1340
11	31	193	153	320	575	770	870	1510	436	109	49	1070
12	34	175	153	509	494	710	800	1320	443	89	48	472
13	27	179	156	655	517	700	600	1010	390	94	48	384
14	40	175	150	684	640	670	610	975	365	78	48	365
15	38	175	150	2130	5160	650	680	1320	354	76	48	342
16	41	177	162	533	2190	640	800	1170	354	63	48	119
17	41	179	172	354	2410	620	930	1230	331	52	91	116
18	47	186	182	583	2850	610	1000	1390	288	60	76	85
19	49	205	186	1340	3350	600	1100	1420	288	35	67	70
20	52	205	175	541	7580	590	1300	1320	250	34	59	58
21	64	201	186	502	5980	580	1500	1350	225	41	54	63
22	80	205	205	509	4840	570	1650	1400	197	34	51	61
23	70	225	237	509	2290	560	1600	1320	182	31	48	64
24	74	201	237	566	1900	560	1440	1080	165	30	90	50
25	80	212	229	525	1420	550	1110	988	159	29	153	57
26	70	186	242	509	1460	540	1200	901	156	25	227	57
27	76	186	240	525	1210	530	1580	820	147	29	278	60
28	85	205	240	541	950	520	1690	724	132	32	216	89
29	94	216	240	1700	962	510	1790	734	144	26	165	64
30	105	208	238	3000	---	485	1690	665	130	27	76	52
31	118	---	235	1010	---	465	---	674	---	33	60	---
TOTAL	1560	5531	5960	19770	52187	20229	29260	39861	11113	2452	2691	7147
MEAN	50.3	184	192	638	1800	653	975	1286	370	79.1	86.8	238
MAX	118	225	242	3000	7580	865	1790	1990	694	175	278	1340
MIN	17	138	150	172	464	465	415	665	130	25	39	30
AC-FT	3090	10970	11820	39210	103500	40120	58040	79060	27040	4860	5340	14180

CAL YR 1979 TOTAL 132196.16 MEAN 362 MAX 2440 MIN 0 AC-FT 262200
WTR YR 1980 TOTAL 197761 MEAN 540 MAX 7580 MIN 17 AC-FT 392300

BEST DOCUMENT AVAILABLE

09415230 VIRGIN RIVER ABOVE HALFWAY WASH NEAR RIVERSIDE, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1977 to current year.
CHEMICAL ANALYSES, MICROBIOLOGICAL DATA, AND SEDIMENT DATA: January 1978 to current year, monthly.
SPECIFIC CONDUCTANCES AND WATER TEMPERATURES: December 1977 to April 1978, monthly; May 1978 to current year, once-daily.
BIOLOGICAL DATA: March 1978 to current year, monthly (seasonal).

REMARKS.--Daily specific-conductance and temperature data are collected approximately 5 mi (8 km) upstream, in NE¼ SE¼ sec.12, T.14 S., R.69 E.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 5,260 micromhos Sept. 16, 1978; minimum, 900 micromhos May 24, 1979.
PHYTOPLANKTON: Maximum, 5,000 cells/mL Sept. 25, 1980; minimum, 27 cells/mL Mar. 30, 1978.
FECAL STREPTOCOCCI: Maximum, 15,000 colonies/100 mL Aug. 26, 1980; minimum, 100 colonies/100 mL (non-ideal colony count) June 28, 1979.
WATER TEMPERATURES: Maximum, 35.5°C July 21, 27, 1980; minimum, 3.5°C Jan. 1, 1979.
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 11,700 mg/L Aug. 26, 1980; minimum, 166 mg/L Sept. 27, 1978.

EXTREMES FOR CURRENT YEAR (MEASUREMENTS AT LEAST ONCE-DAILY).--
SPECIFIC CONDUCTANCES: Maximum, 4,430 micromhos Aug. 20; minimum, 924 micromhos May 9, 20-22.
WATER TEMPERATURES: Maximum, 35.5°C July 21, 27; minimum, 8.5°C Dec. 11.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS (MG/L AS CACO3)
NOV											
01...	1300	135	3480	7.9	15.0	190	9.6	31	870	1600	1400
28...	1330	188	3140	8.0	8.5	110	11.4	20	K50	1200	1200
DEC											
27...	1000	237	2990	8.2	8.5	--	11.3	21	K280	2200	990
JAN											
30...	1430	3300	973	7.9	10.5	3600	10.0	340	K1200	6800	350
FEB											
28...	1330	936	2010	8.0	15.5	640	9.5	55	K150	1200	850
MAR											
27...	1300	523	2130	8.0	16.0	250	9.0	30	K130	740	830
APR											
23...	1300	1740	1900	8.0	14.0	1700	9.6	24	K230	1200	410
MAY											
28...	1600	798	1170	8.0	22.5	180	8.0	29	K85	280	470
JUN											
25...	1045	172	2420	8.0	26.5	130	7.7	14	1200	K380	870
JUL											
29...	1115	30	3590	8.0	26.5	140	7.4	11	2300	1400	1300
AUG											
26...	1230	383	3390	7.8	30.0	900	6.6	290	7600	15000	1300
SEP											
25...	1400	65	3770	8.0	26.5	530	7.3	43	930	1400	1400

K: NON-IDEAL COLONY COUNT.

BEST DOCUMENT AVAILABLE

09415230 VIRGIN RIVER ABOVE HALFWAY WASH NEAR RIVERSIDE, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)
NOV									
01...	1300	330	130	330	3.9	29	280	0	230
28...	1330	310	110	300	3.7	19	--	--	220
DEC									
27...	1000	240	94	280	3.9	23	--	--	270
JAN									
30...	1430	100	24	65	1.5	8.2	--	--	160
FEB									
28...	1330	210	78	150	2.2	14	340	0	279
MAR									
27...	1300	200	79	180	2.7	14	320	0	262
APR									
23...	1300	110	34	58	1.2	6.7	--	--	--
MAY									
28...	1600	120	41	96	1.9	11	300	0	240
JUN									
25...	1045	220	79	220	3.2	21	270	0	220
JUL									
29...	1115	300	130	330	4.0	30	200	0	160
AUG									
26...	1230	320	110	310	3.8	30	--	--	--
SEP									
25...	1400	370	120	330	3.8	27	290	0	240

DATE	TIME	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)
NOV								
01...	1300	1200	460	.7	22	2650	2640	966
28...	1330	970	400	.6	21	2330	2270	1180
DEC								
27...	1000	840	370	.8	21	2090	2030	1340
JAN								
30...	1430	270	70	.3	14	637	--	5680
FEB								
28...	1330	720	150	.5	15	1530	1510	3870
MAR								
27...	1300	640	200	.5	19	1540	1490	2170
APR								
23...	1300	250	73	.3	14	654	--	3070
MAY								
28...	1600	280	110	.1	15	887	822	1910
JUN								
25...	1045	680	280	.6	18	1740	1640	808
JUL								
29...	1115	1200	480	.8	15	2740	2570	222
AUG								
26...	1230	1100	430	.8	19	2660	--	2750
SEP								
25...	1400	1300	500	.8	23	2860	2770	502

09415230 VIRGIN RIVER ABOVE HALFWAY WASH NEAR RIVERSIDE, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)
NOV								
01...	1300	.35	.01	.36	.10	.07	.74	.23
28...	1330	.46	.01	.45	--	--	--	--
DEC								
27...	1000	.59	.04	.58	.18	.16	.74	--
JAN								
30...	1430	--	-	.44	.04	.01	3.6	.25
FEB								
28...	1330	.78	.02	.80	.10	.09	1.4	.14
MAR								
27...	1300	.84	.01	.70	.09	.07	.70	.70
APR								
23...	1300	.33	.02	.28	.06	.08	1.7	.43
MAY								
28...	1600	--	--	.33	.15	.10	.33	.35
JUN								
25...	1045	.29	.01	.31	.07	.09	.84	.53
JUL								
29...	1115	.30	.01	.29	.00	.01	.59	.47
AUG								
26...	1230	.61	.01	.62	.12	.07	1.1	.34
SEP								
25...	1400	.39	.00	--	.04	.03	1.1	.55

DATE	TIME	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED (MG/L AS C)
NOV								
01...	1300	1.2	.66	.25	.00	--	--	3.4
28...	1330	--	1.1	.44	.06	8.8	--	--
DEC								
27...	1000	1.6	--	2.0	.02	--	5.8	--
JAN								
30...	1430	4.3	.70	7.6	.09	64	--	--
FEB								
28...	1330	2.3	1.0	1.0	.05	20	--	--
MAR								
27...	1300	1.6	1.5	.35	.03	--	3.7	2.1
APR								
23...	1300	2.2	.79	1.7	.02	57	--	--
MAY								
28...	1600	.83	.78	.33	.04	3.9	--	--
JUN								
25...	1045	1.2	.93	.15	.02	--	4.9	.2
JUL								
29...	1115	.90	.77	.19	.02	5.1	--	--
AUG								
26...	1230	1.8	1.0	5.5	.05	100	--	--
SEP								
25...	1400	1.5	--	.63	.02	--	9.1	<5.4

09415230 VIRGIN RIVER ABOVE HALFWAY WASH NEAR RIVERSIDE, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, TOTAL (UG/L AS BA)	BARIUM, DIS-SOLVED (UG/L AS BA)	CADMIUM TOTAL (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, TOTAL (UG/L AS CO)	COBALT, DIS-SOLVED (UG/L AS CO)
NOV											
01...	1300	11	6	300	300	1	0	10	0	4	0
DEC											
27...	1000	9	6	300	200	0	1	10	0	2	0
MAR											
27...	1300	10	6	--	300	1	0	0	0	4	0
JUN											
25...	1045	8	5	200	100	1	0	10	0	1	0
SEP											
25...	1400	10	6	500	300	0	0	30	0	8	0

DATE	TIME	COPPER, TOTAL (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)
NOV							
01...	1300	10	2	4200	20	8	0
DEC							
27...	1000	2	1	3700	20	6	0
MAR							
27...	1300	14	3	7800	50	10	0
JUN							
25...	1045	12	4	2900	40	7	1
SEP							
25...	1400	28	3	12000	90	12	1

DATE	TIME	MANGA-NESE, TOTAL (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	NICKEL, TOTAL (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)
NOV							
01...	1300	400	20	.3	.0	10	0
DEC							
27...	1000	190	10	.1	.1	6	2
MAR							
27...	1300	310	20	.1	.0	13	2
JUN							
25...	1045	140	10	.0	.1	11	2
SEP							
25...	1400	610	30	2.3	2.0	25	2

DATE	TIME	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, TOTAL (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
NOV							
01...	1300	1	1	0	0	40	0
DEC							
27...	1000	1	0	0	0	--	20
FEB							
28...	1330	--	--	0	--	--	--
MAR							
27...	1300	5	4	0	0	50	10
MAY							
28...	1600	--	--	0	--	--	--
JUN							
25...	1045	1	1	0	0	80	20
AUG							
26...	1230	--	--	1	--	--	--
SEP							
25...	1400	2	1	0	0	80	20

09415230 VIRGIN RIVER ABOVE HALFWAY WASH NEAR RIVERSIDE, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE	NOV 28,79	MAR 27,80	MAY 28,80	JUN 25,80	JUL 29,80	SEP 25,80
TIME	1330	1300	1600	1045	1115	1400
TOTAL CELLS/ML	1300	470	140	1500	4800	5000
DIVERSITY: DIVISION	1.0	0.9	0.7	1.4	1.3	1.0
.CLASS	1.0	0.9	0.7	1.4	1.3	1.0
..ORDER	1.1	1.3	0.7	1.9	1.6	1.0
...FAMILY	1.8	3.1	1.9	3.1	1.9	1.5
....GENUS	1.8	3.3	1.9	3.2	1.9	1.5

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)												
.CHLOROPHYCEAE												
..CHLOROCOCCALES												
...CHARACIACEAE												
....SCHROEDERIA	--	-	--	-	--	-	--	-	33	1	--	-
...OOCYSTACEAE												
....ANKISTRODESMUS	--	-	27	6	--	-	55	4	130	3	--	-
...SCENEDESMACEAE												
....SCENEDESMUS	--	-	--	-	29#	20	110	7	160	3	--	-
..TETRASPORALES												
...COCCOMYXACEAE												
....ELAKATOTHRIX	--	-	--	-	--	-	28	2	--	-	--	-
..VOLVOCALES												
...CHLAMYDOMONADACEAE												
....CARTERIA	--	-	--	-	--	-	14	1	--	-	--	-
....CHLAMYDOMONAS	--	-	55	12	--	-	28	2	200	4	--	-
CHRYSOPHYTA												
.BACILLARIOPHYCEAE												
..CENTRALES												
...COSCINODISCACEAE												
....CYCLOTELLA	20	2	27	6	--	-	120	8	200	4	--	-
....STEPHANODISCUS	--	-	--	-	--	-	--	-	--	-	69	1
..PENNALES												
...ACHNANTHACEAE												
....ACHNANTHES	10	1	14	3	29#	20	55	4	--	-	--	-
....COCCONEIS	--	-	--	-	--	-	14	1	--	-	--	-
...CYMBELLACEAE												
....CYMBELLA	15	1	27	6	29#	20	97	7	--	-	--	-
...DIATOMACEAE												
....DIATOMA	--	-	--	-	--	-	14	1	--	-	--	-
....OPEPHORA	*	0	--	-	--	-	--	-	--	-	--	-
...FRAGILARIACEAE												
....SYNEDRA	25	2	14	3	--	-	41	3	--	-	--	-
...GOMPHONEMATACEAE												
....GOMPHONEMA	20	2	69	15	--	-	14	1	--	-	--	-
...NAVICULACEAE												
....CALONEIS	--	-	14	3	--	-	--	-	--	-	--	-
....NAVICULA	150	12	55	12	57#	40	300#	21	160	3	550	11
...NITZSCHIACEAE												
....NITZSCHIA	230#	18	110#	24	--	-	220	15	2600#	54	2600#	51
...SURIRELLACEAE												
....SURIRELLA	10	1	41	9	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)												
.CYANOPHYCEAE												
..CHROOCOCCALES												
...CHROOCOCCACEAE												
....AGMENELLUM	810#	62	--	-	--	-	--	-	--	-	--	-
....ANACYSTIS	--	-	--	-	--	-	--	-	--	-	1900#	37
..HORMOGONALES												
...OSCILLATORIACEAE												
....LYNGBYA	--	-	--	-	--	-	360#	24	--	-	--	-
....OSCILLATORIA	--	-	--	-	--	-	--	-	1300#	28	--	-
EUGLENOPHYTA (EUGLENOIDS)												
.EUGLENOPHYCEAE												
..EUGLENALES												
...EUGLENACEAE												
....EUGLENA	--	-	14	3	--	-	--	-	--	-	--	-
....EUTREPTIA	*	0	--	-	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

BEST DOCUMENT AVAILABLE

09415230 VIRGIN RIVER ABOVE HALFWAY WASH NEAR RIVERSIDE, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV					
01...	1300	135	1850	674	--
DEC					
27...	1000	237	1750	1120	81
FEB					
28...	1330	936	4530	11400	43
MAR					
27...	1300	523	2220	3140	39
APR					
23...	1300	1740	8460	39700	52
MAY					
28...	1600	798	1590	3430	43
JUN					
25...	1045	172	770	358	40
JUL					
29...	1115	30	469	38	79
AUG					
26...	1230	383	11700	12100	87
SEP					
25...	1400	65	2100	369	59

09415230 VIRGIN RIVER ABOVE HALFWAY WASH NEAR RIVERSIDE, NV--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3920	3330	3060	2860	1640	1890	2090	1070	1330	2610	3710	3700
2	4340	3320	3040	2710	1840	1960	2140	1110	1330	2430	3410	3700
3	4340	3300	2990	2770	1900	1960	2240	1110	1390	2480	3350	3700
4	4140	3320	3000	2810	1940	1700	2280	1070	1350	2260	3060	3700
5	4220	3280	2890	2800	1940	1790	2070	1040	1330	2480	3250	3850
6	4110	3250	2960	2820	1860	1930	2060	1040	1330	2610	3590	3850
7	3990	3280	2990	2790	1980	1520	1850	1210	1330	2610	3710	3280
8	4170	3250	2980	2790	1990	1600	1720	967	1370	2580	4000	2940
9	4110	3230	2930	2900	2040	1730	1760	924	1390	2430	4080	2940
10	4110	2920	2970	2890	1970	1670	1700	945	1490	2320	3530	3230
11	4330	2880	2980	2500	2260	1630	1610	945	1540	2650	4330	3030
12	4080	2940	3020	1900	2380	1460	1520	1040	1590	2910	4330	3030
13	4090	2990	2940	1440	2330	1500	1640	1120	1640	2910	4290	3130
14	3770	2980	2950	1390	2600	1800	1690	1160	1670	2910	4330	3130
15	3740	3090	2920	1270	1360	1860	1680	1040	1820	3090	4240	3030
16	3770	3040	2920	1350	1100	1860	1530	1110	1890	3090	3650	3130
17	3680	3040	2890	1900	1140	1890	1410	1040	1820	3230	3470	3280
18	3640	3040	2860	2060	980	1930	1320	990	1920	3290	4080	3390
19	3740	3060	2860	1220	1160	1900	1240	967	1960	3450	4160	3390
20	3740	2970	2870	1670	1500	1980	1140	924	2040	3400	4430	3510
21	3520	2880	2910	1980	1410	1960	1060	924	2130	3290	4330	3640
22	3480	2880	2990	2180	1360	1940	977	924	2150	3640	4330	3700
23	3330	2960	2720	2230	1510	1940	990	945	2200	3640	4330	3570
24	3310	2980	2790	2300	1790	1980	1090	1040	2330	3700	3650	3570
25	3440	2960	2830	2350	1820	1960	1220	1040	2350	3400	3250	3570
26	3410	3000	2810	2340	1770	1980	1140	1160	2470	3400	2600	3640
27	3410	2980	2780	2330	1830	2100	1030	1220	2500	3400	2540	3640
28	3360	2980	2760	2320	2000	2060	1000	1280	2560	3400	3060	3450
29	3440	3100	2790	2120	1910	2060	1040	1320	2670	3450	4160	3640
30	3410	3090	2850	1060	---	2140	1010	1390	2700	3400	4160	3640
31	3410	---	2870	1220	---	2120	---	1340	---	3450	3780	---
MEAN	3790	3080	2910	2170	1770	1860	1510	1080	1850	3030	3780	3430

WTR YR 1980 MEAN 2530 MAX 4430 MIN 924

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28.0	17.0	12.5	11.5	13.5	14.5	14.5	20.5	24.5	29.0	34.5	28.0
2	27.5	18.0	11.5	12.0	14.0	15.0	17.5	22.5	22.5	31.0	31.5	26.5
3	29.0	17.0	14.5	11.0	13.5	13.5	20.5	23.5	21.5	29.0	31.0	29.0
4	28.5	16.0	13.0	11.0	15.0	14.5	20.0	23.5	23.5	29.5	30.0	30.0
5	27.5	17.0	14.0	12.0	15.0	13.0	20.0	23.5	23.5	29.0	27.0	30.0
6	28.0	17.5	14.5	11.0	14.0	14.5	20.0	21.0	23.5	26.0	29.0	29.0
7	23.0	17.0	15.5	12.0	12.0	12.0	20.5	18.0	26.0	27.0	32.0	27.0
8	26.0	16.0	15.0	12.0	13.0	13.0	21.0	20.0	26.5	29.0	30.0	25.0
9	21.0	16.0	15.5	11.5	13.5	14.5	21.0	17.5	27.5	29.0	30.5	24.5
10	27.5	17.0	14.0	13.0	14.0	14.0	21.5	17.0	27.0	30.0	33.5	27.0
11	23.0	15.0	8.5	10.5	14.5	14.5	17.5	15.5	24.0	29.0	30.0	27.0
12	23.5	17.0	9.0	11.0	14.5	14.5	19.5	20.0	24.5	28.0	29.0	27.0
13	23.0	17.0	9.5	12.0	11.0	15.0	20.5	21.0	25.0	29.0	31.0	24.0
14	23.0	14.5	11.0	13.5	12.0	16.5	21.0	19.5	27.0	30.0	25.5	24.5
15	22.5	16.0	11.0	12.0	9.0	16.5	21.5	20.0	30.0	30.0	27.0	25.5
16	25.0	16.0	12.0	13.0	10.5	14.5	23.0	22.0	31.0	31.0	20.0	28.0
17	23.0	13.0	12.5	12.0	10.5	16.0	22.5	23.5	28.0	30.0	28.0	28.5
18	20.5	16.0	12.0	12.0	13.5	16.0	21.0	24.0	27.5	29.0	25.0	24.0
19	19.0	10.5	10.5	10.5	10.5	18.0	21.0	24.5	28.0	31.0	27.0	22.0
20	20.5	13.5	13.0	10.5	10.0	18.0	20.0	25.0	28.0	33.0	30.5	24.5
21	21.0	12.0	9.5	10.5	10.5	16.0	17.0	24.5	27.0	35.5	28.0	27.5
22	21.5	12.5	12.0	12.0	11.0	13.0	17.0	21.5	27.5	32.5	24.5	25.0
23	22.5	10.5	11.5	11.5	12.5	17.0	14.5	19.5	27.5	34.0	27.0	27.0
24	22.5	13.0	11.0	12.5	13.0	14.5	18.0	16.5	26.0	34.5	27.0	27.0
25	22.5	13.0	13.0	13.0	13.5	15.5	21.0	20.0	27.0	33.0	32.0	28.5
26	22.5	14.0	9.5	13.0	16.0	18.0	21.5	19.5	26.0	33.0	29.0	28.0
27	22.0	13.5	11.5	11.5	16.0	16.5	22.5	21.5	33.0	35.5	25.5	28.0
28	18.0	9.5	10.5	13.0	16.0	16.5	18.0	21.5	33.5	33.0	25.0	27.0
29	12.0	10.5	10.5	13.5	16.0	19.5	16.0	24.0	33.0	31.0	27.0	28.0
30	16.5	11.0	9.0	9.5	---	14.5	19.0	22.0	31.0	27.5	27.0	28.0
31	16.5	---	9.0	10.5	---	17.5	---	23.5	---	33.0	26.5	---
MEAN	23.0	14.5	12.0	12.0	13.0	15.5	19.5	21.0	27.0	30.5	28.5	27.0

WTR YR 1980 MEAN 20.5 MAX 35.5 MIN 8.5

BEST DOCUMENT AVAILABLE

09415950 MUDDY RIVER POWER DIVERSION NEAR MOAPA, NV

LOCATION.--Lat 36°42'42", long 114°41'40", in SE¼SE¼ sec.15, T.14 S., R.65 E., Clark County, Hydrologic Unit 15010012, on left bank of Muddy River, 0.1 mi (0.2 km) upstream from Battleship Wash, 0.8 mi (1.3 km) downstream from Home Ranch, 5 mi (8 km) northwest of Moapa, and 9.5 mi (15.3 km) upstream from Meadow Valley Wash.

PERIOD OF RECORD.--October 1977 to current year. Prior to October 1977, discharge included in daily flow figures of Muddy River near Moapa (station 09416000).

GAGE.--Water-stage recorder and Sparling meter.

REMARKS.--Flow is pumped 100 ft upstream from Muddy River near Moapa (09416000) for powerplant cooling. Flow estimated Sept. 3 - 30.

COOPERATION.--Record of flow furnished by Nevada Power Company.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 11 ft^3/s (0.31 m^3/s) Feb. 12, 1979 and March 24, 1980; no flow at times each year.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge 11 ft^3/s (0.31 m^3/s) March 24; no flow at times.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	5.1	1.9	2.0	4.6	7.0	2.8	.00	2.2	5.7	2.1	2.1
2	1.9	5.2	2.0	2.0	4.9	8.1	6.0	2.3	2.2	.00	2.1	2.4
3	1.9	4.9	5.6	2.0	4.3	7.7	4.8	2.7	2.1	.00	2.3	2.6
4	1.9	5.0	4.9	1.9	3.4	2.9	1.2	2.3	2.0	.00	2.3	2.6
5	1.9	4.8	2.0	1.9	1.8	6.5	5.5	2.4	1.9	.00	2.3	2.6
6	1.9	4.7	2.0	1.9	3.2	5.1	8.5	2.1	1.6	1.5	2.9	2.6
7	2.0	5.1	4.9	1.9	5.1	4.8	2.9	4.7	1.4	1.8	2.1	2.6
8	2.0	5.4	4.7	1.8	5.2	3.6	.00	7.1	1.8	1.9	2.1	2.6
9	2.0	6.8	2.0	1.7	5.8	8.5	6.1	8.6	1.6	1.9	2.1	2.6
10	1.9	7.6	2.0	1.6	5.5	2.7	6.8	8.3	1.9	1.9	2.1	2.6
11	1.6	7.0	2.0	1.5	4.9	8.3	2.1	1.9	4.5	2.0	2.0	2.6
12	1.9	5.2	5.0	1.5	4.9	6.1	5.7	1.9	4.9	1.9	2.0	2.6
13	1.9	2.0	6.5	1.6	5.0	.00	2.2	2.0	3.2	2.0	2.2	2.6
14	1.9	4.7	1.7	1.6	2.6	5.0	2.8	1.9	3.1	1.9	2.2	2.6
15	1.9	5.2	.00	1.6	.00	5.9	4.9	2.0	3.7	1.8	2.0	2.6
16	2.0	3.6	4.7	1.3	.00	3.0	5.0	2.1	3.4	1.6	2.1	2.6
17	3.4	5.8	5.4	1.4	.00	7.4	7.5	2.2	4.0	1.2	2.0	2.6
18	5.1	5.4	5.1	1.1	.00	2.5	9.4	2.4	3.5	1.5	1.9	2.6
19	4.9	3.3	5.8	.98	.00	5.9	3.9	2.7	3.3	2.1	2.2	2.6
20	4.5	3.0	2.3	.98	.00	2.4	3.6	2.4	3.1	2.1	2.9	2.6
21	3.9	5.3	1.9	1.0	.00	7.9	4.9	2.4	2.2	2.0	2.8	2.6
22	3.8	5.5	2.7	1.1	.00	8.4	6.8	2.3	2.4	3.0	2.2	2.6
23	3.9	5.6	3.1	.63	.00	9.1	4.3	3.4	5.1	2.6	2.0	2.6
24	4.6	7.1	3.2	.41	.00	11	5.5	2.4	2.5	2.0	2.4	2.6
25	4.0	5.9	3.0	1.1	.00	3.3	5.0	2.0	2.2	1.9	2.5	2.6
26	3.8	3.6	2.8	2.1	.00	.00	5.9	2.1	2.5	2.4	2.0	2.6
27	4.1	5.9	3.2	2.0	.22	7.7	6.7	2.1	2.4	4.0	2.6	2.6
28	4.1	6.3	3.0	4.7	5.1	6.0	5.1	1.9	2.4	3.6	2.0	2.6
29	6.3	3.1	2.6	6.1	9.1	9.3	.76	1.5	2.4	5.2	2.1	2.6
30	6.8	2.0	2.3	5.6	---	2.0	.00	2.2	5.4	2.6	2.5	2.6
31	7.3	---	2.0	5.3	---	6.2	---	2.5	---	2.1	2.5	---
TOTAL	101.0	150.1	100.30	62.30	75.62	175.10	136.66	86.80	84.9	64.20	69.5	77.3
MEAN	3.26	5.00	3.24	2.01	2.61	5.65	4.56	2.80	2.83	2.07	2.24	2.58
MAX	7.3	7.6	6.5	6.1	9.1	11	9.4	8.6	5.4	5.7	2.9	2.6
MIN	1.6	2.0	.00	.41	.00	.00	.00	.00	1.4	.00	1.9	2.1
AC-FT	200	298	199	124	150	347	271	172	168	127	138	153

CAL YR 1979 TOTAL 1438.50 MEAN 3.94 MAX 11 MIN .00 AC-FT 2850
WTR YR 1980 TOTAL 1183.78 MEAN 3.23 MAX 11 MIN .00 AC-FT 2350

09416000 MUDDY RIVER NEAR MOAPA, NV

LOCATION.--Lat 36°42'40", long 114°41'40", in SE¼SE¼ sec.15, T.14 S., R.65 E., Clark County, Hydrologic Unit 15010012, on left bank 0.1 mi (0.2 km) upstream from Battleship Wash, 0.8 mi (1.3 km) downstream from Home Ranch, 5 mi (8 km) northwest of Moapa, and 9.5 mi (15.3 km) upstream from Meadow Valley Wash and 26 mi (42 km) upstream from highwater line of Lake Mead at elevation 1,221.4 ft (372.28 m), National Geodetic Vertical Datum of 1929.

DRAINAGE AREA.--3,820 mi^2 (9,890 km^2), approximately, of which about 40 mi^2 (104 km^2) contributes directly to surface runoff.

PERIOD OF RECORD.--July 1913 to September 1915, April 1916 to September 1918, June 1928 to October 1931, April to July 1932, October 1944 to current year. Monthly discharge only for some periods, published in WSP 1313. Records for January 1904 to December 1906 (gage heights only), 1908-9 (discharge measurements only), and April to October 1910 not equivalent owing to large difference in drainage area.

REVISED RECORDS.--WSP 1243: 1914 (M). WSP 1343: 1950 (M). WSP 1733: Drainage area.

GAGE.--Water-stage recorder and Cipolletti weir. Altitude of gage is 1,710 ft (521 m), from river-profile map. October 21, 1944 to September 30, 1948, water-stage recorder at datum 0.08 ft (0.024 m) higher.

REMARKS.--Records fair. Diversions for irrigation above station. Beginning Oct. 1, 1976, records do not include part-time diversion about 100 ft (30.5 m) upstream, for cooling of powerplant downstream. Normal flow originates from springs in reach 0.9 to 2.5 mi (1.4 to 4.0 km) upstream from station. Flood peaks may be dampened by Arrow Canyon Dam.

AVERAGE DISCHARGE.--39 years (1913-15, 1916-18, 1928-31, 1944-76), 41.5 ft^3/s (1.175 m^3/s), 32,670 acre-ft/yr (40.3 hm^3/yr), adjusted for flow which bypasses stream due to pump about 100 ft upstream which diverts water part of the time for powerplant cooling.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,100 ft^3/s (144 m^3/s) Sept. 7, 1967, gage height, 12.35 ft (3.764 m); minimum, 23 ft^3/s (0.65 m^3/s) Apr. 30, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 101 ft^3/s (2.86 m^3/s) July 1, gage height, 1.74 ft (0.530 m); minimum, 27 ft^3/s (0.76 m^3/s) Aug. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	35	45	46	41	40	37	44	43	58	31	34
2	34	35	46	46	40	40	38	42	42	85	30	35
3	34	35	42	45	40	42	36	39	40	80	31	37
4	34	34	43	44	40	46	40	39	39	68	31	35
5	36	34	46	44	40	42	38	37	39	35	30	35
6	38	34	45	44	39	51	37	38	39	32	31	35
7	40	33	41	45	38	49	42	42	39	32	31	37
8	40	33	41	56	40	46	44	43	39	33	33	35
9	40	33	43	59	43	41	38	44	39	35	32	36
10	41	33	43	60	40	45	37	45	39	34	32	36
11	40	35	42	61	49	41	40	45	38	33	33	36
12	39	36	43	51	51	43	37	44	36	33	32	36
13	39	39	40	46	47	50	42	43	37	33	32	37
14	39	38	43	46	59	42	43	44	37	32	32	36
15	40	37	44	46	51	40	40	45	36	31	32	35
16	40	39	40	47	54	43	40	45	36	32	32	33
17	36	38	39	47	71	38	39	44	36	32	32	34
18	34	40	40	47	52	40	39	43	35	31	32	34
19	33	42	42	50	57	42	40	43	35	32	32	34
20	35	43	41	47	53	41	41	42	34	32	32	34
21	36	40	43	46	51	40	38	43	34	33	31	34
22	38	42	43	46	45	39	35	45	34	32	31	34
23	40	41	43	48	45	38	38	43	33	31	32	35
24	39	44	43	47	44	39	37	40	32	32	33	36
25	40	45	44	48	44	41	36	42	34	32	34	36
26	40	42	45	45	44	42	34	42	34	31	34	36
27	40	38	45	46	45	43	36	42	34	31	34	37
28	40	37	45	45	43	42	36	41	34	32	34	36
29	38	40	45	46	38	41	52	41	33	31	34	37
30	38	44	46	42	---	39	45	41	33	31	34	36
31	39	---	47	49	---	38	---	41	---	31	34	---
TOTAL	1175	1139	1338	1485	1344	1304	1175	1312	1093	1160	998	1061
MEAN	37.9	38.0	43.2	47.9	46.3	42.1	39.2	42.3	36.4	37.4	32.2	35.4
MAX	41	45	47	61	71	51	52	45	43	85	34	37
MIN	33	33	39	42	38	38	34	37	32	31	30	33
AC-FT	2330	2260	2650	2950	2670	2590	2330	2600	2170	2300	1980	2100

CAL YR 1979 TOTAL 14535 MEAN 39.8 MAX 557 MIN 27 AC-FT 28830
WTR YR 1980 TOTAL 14584 MEAN 39.8 MAX 85 MIN 30 AC-FT 28930

BEST DOCUMENT AVAILABLE

09418200 MATHEWS CANYON WASH NEAR CALIENTE, NV

LOCATION.--Lat 37°29'55", long 114°13'20", in E½ sec.24, T.5 S., R.69 E., Lincoln County, Hydrologic Unit 15010013, on right bank at downstream end of stilling basin at outlet of conduit through flood-control dam, 2.5 mi (4.0 km) upstream from mouth, and 17 mi (27 km) southeast of Caliente.

DRAINAGE AREA.--34 mi^2 (88 km^2), approximately (by Corps of Engineers, U.S. Army).

PERIOD OF RECORD.--June 1958 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 5,409.10 ft (1,648.694 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--Records poor. No flow exists in this channel except at times of heavy rainfall or rapid snowmelt. Floods that occur in the drainage above station will be controlled by dam (constructed in 1958 by the Corps of Engineers, U.S. Army). Water is released from a 3.5-ft (1.07 m) diameter uncontrolled conduit through dam. Flow over dam spillway will bypass station.

AVERAGE DISCHARGE.--22 years, 0.779 ft^3/s (0.0221 m^3/s), 564 acre-ft/yr (695,400 m^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 206 ft^3/s (5.83 m^3/s) Dec. 29, 1965, gage height, 11.85 ft (3.615 m); no flow most of the time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 163 ft^3/s (4.62 m^3/s) Feb. 21, gage height, 10.91 ft (3.325 m; no flow most of the year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.14	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.07	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.22	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.30	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.12	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.12	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.17	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.10	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.10	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.19	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	7.4	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	6.2	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	1.3	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	50	.30	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	103	.10	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	66	.03	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	108	.02	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	135	.01	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	148	.01	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	158	.01	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	159	.01	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	156	.01	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	143	.01	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	108	.01	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	44	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	15	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	3.9	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	1.0	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	.30	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	.00	.00	.00	.00	1398.20	16.95	.00	.00	.00	.00	.00	.00
MEAN	.000	.000	.000	.000	48.2	.55	.000	.000	.000	.000	.000	.000
MAX	.00	.00	.00	.00	159	7.4	.00	.00	.00	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	2770	34	.00	.00	.00	.00	.00	.00

CAL YR 1979 TOTAL 219.36 MEAN .60 MAX 29 MIN .00 AC-FT 435
WTR YR 1980 TOTAL 1415.15 MEAN 3.87 MAX 159 MIN .00 AC-FT 2810

09418300 PINE CANYON WASH NEAR CALIENTE, NV

LOCATION.--Lat 37°28'40", long 114°19'00", in sec.30, T.5 S., R.69 E., Lincoln County, Hydrologic Unit 15010013, on left bank 100 ft (30 m) downstream from outlet of flood-control dam, 4 mi (6 km) upstream from mouth, and 14 mi (23 km) southeast of Caliente.

DRAINAGE AREA.--45 mi^2 (117 km^2), approximately (by Corps of Engineers, U.S. Army).

PERIOD OF RECORD.--June 1958 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,595 ft (1,705.4 m) (by Corps of Engineers damsite topography).

REMARKS.--Records good. There is no flow at this station except following heavy rainstorms or during periods of rapid snowmelt. Floods that occur in the drainage above the station will be controlled by dam (constructed in 1958 by the Corps of Engineers, U.S. Army). Water is released from a 3.5-ft (1.07 m) diameter uncontrolled conduit through dam.

AVERAGE DISCHARGE.--22 years, 1.94 ft^3/s (0.0549 m^3/s), 1,410 acre-ft/yr (1.74 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 303 ft^3/s (8.58 m^3/s) Mar. 3, 1978, gage height, 4.12 ft (1.256 m); no flow most of the time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 232 ft^3/s (6.57 m^3/2) Feb. 20, gage height, 3.91 ft (1.192 m) no flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	11	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	6.8	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	32	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	43	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	30	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	33	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	33	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	24	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	19	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	20	.69	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	22	12	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	25	5.8	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	19	3.0	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	14	2.3	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	29	11	5.1	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	29	8.8	10	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	65	4.2	14	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	192	2.8	16	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	211	.92	16	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	223	.51	16	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	217	.51	17	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	203	.43	15	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	103	.28	8.0	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	36	.16	1.8	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	22	.12	.70	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	16	.00	.28	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	14	.00	.12	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	15	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	14	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	.00	.00	.00	.00	1389.00	361.53	143.79	.00	.00	.00	.00	.00
MEAN	.000	.000	.000	.000	47.9	11.7	4.79	.000	.000	.000	.000	.000
MAX	.00	.00	.00	.00	223	43	17	.00	.00	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	2760	717	285	.00	.00	.00	.00	.00

CAL YR 1979 TOTAL 1530.88 MEAN 4.19 MAX 120 MIN .00 AC-FT 3040
WTR YR 1980 TOTAL 1894.32 MEAN 5.18 MAX 223 MIN .00 AC-FT 3760

09418500 MEADOW VALLEY WASH NEAR CALIENTE, NV

LOCATION.--Lat 37°33'20", long 114°33'50", in NE¼ sec.35, T.4 S., R.66 E., Lincoln County, Hydrologic Unit 15010013, on right bank 0.5 mi (0.8 km) east of Etna, 4.5 mi (7.2 km) southwest of Caliente, and 6 mi (10 km) downstream from Clover Creek.

DRAINAGE AREA.--1,670 mi^2 (4,325 km^2).

PERIOD OF RECORD.--January 1951 to September 1960, November 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,200 ft (1,280 m), by barometer. Prior to June 16, 1955, at site 1.8 mi (2.9 km) downstream at different datum.

REMARKS.--Records fair except for period of no gage height record, Jan. 29 to Feb. 20, which are poor. Several diversions for irrigation above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--24 years (1951-60, 1965-80), 12.3 ft^3/s (0.348 m^3/s), 8,910 acre-ft/yr (11.0 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 2,400 ft^3/s (68.0 m^3/s) Mar. 5, 1978, gage height, 9.41 ft (2.868 m), from floodmarks; no flow July 26-28, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2360 ft^3/s (66.8 m^3/s) Feb. 15, gage height 9.12 ft (2.780 m), no other peak above base of 300 ft^3/s (8.50 m^3/s); minimum daily 0.84 ft^3/s (0.024 m^3/s) Sept. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	4.4	6.1	5.3	9.4	20	20	12	5.3	3.4	2.5	1.9
2	3.3	4.0	6.1	5.5	10	20	20	13	4.5	3.4	2.5	1.7
3	3.2	4.1	6.4	5.8	10	21	20	10	3.8	3.8	2.2	1.2
4	2.4	4.3	6.5	5.3	11	31	20	11	4.5	3.4	1.9	1.2
5	2.4	4.5	6.5	5.1	11	27	20	11	3.8	3.1	1.9	1.2
6	2.5	4.6	6.7	5.1	12	26	20	13	2.8	3.1	2.2	1.2
7	2.6	4.6	6.7	5.3	12	33	19	12	2.5	3.1	2.2	2.5
8	2.7	5.6	6.9	5.3	11	30	19	11	2.8	3.1	2.5	1.9
9	2.6	5.0	7.0	5.8	11	22	19	10	2.8	3.1	2.8	1.7
10	2.6	4.9	7.0	7.0	12	22	18	10	2.8	2.8	2.8	1.9
11	2.6	4.0	6.9	7.7	12	21	17	10	2.5	2.8	2.5	1.7
12	2.8	5.3	7.0	7.3	15	21	17	11	2.8	2.8	2.8	1.2
13	2.9	5.9	6.0	8.0	189	22	17	11	2.5	2.8	2.8	1.0
14	2.8	5.5	5.7	14	186	29	17	12	2.2	2.5	2.8	.84
15	2.8	5.4	5.7	27	1200	20	17	15	2.5	2.5	2.5	1.2
16	3.1	5.5	5.7	24	600	16	17	14	2.2	2.5	2.8	1.4
17	3.6	5.8	5.5	21	400	16	17	11	2.2	2.5	2.5	1.7
18	3.6	5.9	5.8	24	310	17	14	9.8	2.5	2.2	2.2	1.7
19	3.1	6.1	6.2	30	420	18	15	7.7	2.5	2.5	2.2	1.7
20	3.8	6.1	6.1	24	580	18	15	5.3	2.5	2.5	2.5	2.2
21	3.7	5.2	6.4	19	726	20	14	5.3	2.8	2.5	1.9	2.2
22	3.5	5.1	6.4	16	426	21	15	4.5	2.8	2.5	1.7	2.2
23	3.6	5.1	6.1	14	274	21	16	2.8	2.8	2.8	1.7	2.4
24	4.1	5.1	6.1	13	147	22	18	3.8	3.1	3.0	1.9	2.8
25	4.7	5.5	6.4	12	96	22	19	3.8	3.1	3.1	2.1	2.5
26	4.6	5.8	6.4	11	70	20	18	3.8	2.8	3.4	2.1	2.5
27	4.3	5.6	6.4	11	39	18	16	5.3	3.1	2.8	1.7	3.1
28	4.7	5.7	5.8	11	27	21	15	6.8	3.1	2.5	1.7	3.1
29	4.6	6.4	5.8	10	21	21	14	5.3	2.8	2.5	1.7	3.1
30	4.6	6.2	5.5	10	---	21	12	4.5	2.8	3.1	1.9	3.1
31	4.7	---	5.3	9.4	---	20	---	5.8	---	3.8	1.9	---
TOTAL	105.6	158.0	193.1	378.9	5847.4	668	515	271.5	89.2	89.9	69.4	58.04
MEAN	3.41	5.27	6.23	12.2	202	21.5	17.2	8.76	2.97	2.90	2.24	1.93
MAX	4.7	6.4	7.0	30	1200	33	20	15	5.3	3.8	2.8	3.1
MIN	2.4	4.0	5.3	5.1	9.4	16	12	2.8	2.2	2.2	1.7	.84
AC-FT	209	313	383	752	11600	1320	1020	539	177	178	138	115

CAL YR 1979 TOTAL 7130.60 MEAN 19.5 MAX 951 MIN 2.1 AC-FT 14140
WTR YR 1980 TOTAL 8444.04 MEAN 23.1 MAX 1200 MIN .84 AC-FT 16750

09419000 MUDDY RIVER NEAR GLENDALE, NV

LOCATION.--Lat 36°38'35", long 114°32'20", in SW¼ sec.7, T.15 S., R.67 E., Clark County, Hydrologic Unit 15010012, on left bank at the Narrows, 150 ft (50 m) downstream from Weiser Wash, 2 mi (3 km) southeast of Glendale, 2.4 mi (3.9 km) downstream from Meadow Valley Wash, 4.5 mi (7.2 km) northwest of Logandale and 16 mi (26 km) upstream from high water line of Lake Mead at elevation 1,221.4 ft (372.28 m), National Geodetic Vertical Datum of 1929.

DRAINAGE AREA.--6,780 mi² (17,600 km²), approximately, of which about 3,000 mi² (7,800 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--January 1904 to December 1906 (gage heights only) and April to October 1910 (published as "near Moapa"), July 1913 to February 1914 (published as "near Logan"), February 1950 to current year.

REVISED RECORDS.--WSP 1243: 1906 (M). WSP 1733: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 1,460 ft (445 m), from river-profile map. Jan. 1, 1904, to Dec. 31, 1906, nonrecording gage just upstream at different datum. Apr. 22, 1910, to Feb. 21, 1914, nonrecording gage and rating flume at lower end of the Narrows, 1.2 mi (1.9 km) downstream at different datum.

REMARKS.--Records fair. Diversions for irrigation above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--30 years (1950-80), 45.5 ft³/s (1.289 m³/s), 32,960 acre-ft/yr (40.6 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,380 ft³/s (209 m³/s) Nov. 6, 1960, gage height, 20.36 ft (6.206 m) from rating curve extended above 460 ft³/s (13.0 m³/s) on basis of slope-area measurements at gage heights 8.42 ft (2.566 m) and 20.36 ft (6.206 m); minimum, 7.6 ft³/s (0.22 m³/s) Sept. 29, 1964, result of temporary storage upstream.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 30 ft (9.1 m) Mar. 26, 1906 (datum then in use), discharge not determined.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 210 ft³/s (5.95 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Feb. 22	1245	*885	25.1	13.18	4.017
July 2	0445	558	15.8	10.55	3.216

Minimum discharge, 25 ft³/s (0.71 m³/s) Sept. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	40	43	53	50	40	39	43	32	32	31	29
2	33	38	43	52	49	40	38	42	35	248	31	29
3	33	37	43	52	49	42	39	40	32	35	31	29
4	34	37	39	52	50	46	40	38	32	35	31	29
5	35	37	42	52	50	42	41	39	34	35	31	29
6	37	38	44	51	53	51	38	38	33	35	31	29
7	37	36	41	52	49	49	37	36	34	34	31	30
8	38	33	39	51	50	46	40	35	34	34	31	47
9	38	34	42	53	50	41	38	36	34	34	31	32
10	37	34	45	56	50	45	36	36	34	34	30	34
11	37	38	44	56	51	41	37	37	33	34	30	33
12	35	38	46	56	51	43	38	38	32	33	30	32
13	35	38	46	55	51	50	36	36	32	33	30	28
14	36	38	46	55	79	42	40	37	34	33	30	29
15	36	38	48	55	71	40	35	40	34	33	30	29
16	37	38	48	55	55	43	36	38	34	33	30	29
17	36	37	45	55	101	38	35	35	35	33	30	28
18	36	37	45	55	78	38	36	35	34	33	29	28
19	36	37	46	57	232	39	35	35	33	32	29	29
20	36	39	46	55	468	41	37	34	31	32	29	30
21	37	39	48	54	684	41	36	34	32	32	29	30
22	37	40	51	54	698	39	36	34	32	32	29	30
23	37	40	50	56	489	41	36	34	33	32	29	27
24	36	38	49	55	204	39	35	33	31	32	29	26
25	36	42	48	56	87	39	35	35	31	32	29	28
26	36	43	50	54	42	41	32	36	31	31	29	29
27	36	37	49	55	45	42	34	34	30	31	29	30
28	37	39	49	54	43	39	32	31	31	31	29	29
29	37	38	50	55	38	41	60	31	31	31	29	30
30	40	41	49	51	---	42	55	32	32	31	28	29
31	41	---	51	59	---	40	---	32	---	31	28	---
TOTAL	1126	1141	1425	1681	4067	1301	1142	1114	980	1231	923	908
MEAN	36.3	38.0	46.0	54.2	140	42.0	38.1	35.9	32.7	39.7	29.8	30.3
MAX	41	43	51	59	698	51	60	43	35	248	31	47
MIN	33	33	39	51	38	38	32	31	30	31	28	26
AC-FT	2230	2260	2830	3330	8070	2580	2270	2210	1940	2440	1830	1800

CAL YR 1979 TOTAL 15783 MEAN 43.2 MAX 609 MIN 19 AC-FT 31310
WTR YR 1980 TOTAL 17039 MEAN 46.6 MAX 698 MIN 26 AC-FT 33800

09419515 MUDDY RIVER ABOVE LAKE MEAD NEAR OVERTON, NV
(National stream-quality accounting network station)

LOCATION.--Lat 36°31'21", long 114°24'49", in SE¼SW¼ sec.20, T.16 S., R.68 E., Clark County, Hydrologic Unit 15010005 on right bank in Overton State Wildlife Management Area, 0.8 mi (1.3 km) downstream from diversion dam, 2.3 mi (3.7 km) southeast of Overton, and 1 mi (1.6 km) downstream from highwater line of Lake Mead at elevation 1,221.4 ft (372.28 m), National Geodetic Vertical Datum of 1929.

DRAINAGE AREA.--8,310 mi^2 (21,520 km^2) approximately, of which about 4,300 mi^2 (11,140 km^2) contributes directly to surface runoff.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1978 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,200 ft (365 m), from topographic map.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 436 ft^3/s (12.3 m^3/s) Feb. 23, 1980, gage height, 12.37 ft (3.770 m); minimum daily, 0.32 ft^3/s (0.009 m^3/s) Dec. 12, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 436 ft^3/s (12.3 m^3/s) Feb. 23, gage height, 12.37 ft (3.770 m); minimum daily, 0.32 ft^3/s (0.009 m^3/s) Dec. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.9	9.5	.79	3.2	11	44	16	10	4.3	2.2	1.2	4.7
2	4.9	9.3	1.2	3.6	5.8	44	15	3.0	4.2	114	1.0	3.0
3	5.0	7.6	.86	7.3	5.2	40	12	3.0	4.1	75	1.1	2.6
4	5.0	13	.86	6.6	5.1	42	11	2.9	4.0	52	1.2	3.7
5	5.1	13	1.6	3.7	4.1	46	12	2.9	3.9	39	1.0	3.4
6	5.1	13	1.2	1.6	5.0	38	5.9	2.9	3.8	15	1.0	3.8
7	5.2	15	1.2	1.4	2.5	71	6.2	2.8	3.7	6.9	1.0	7.9
8	5.2	7.8	.86	1.3	2.0	49	7.6	2.8	3.6	2.4	.93	13
9	5.2	3.6	1.1	7.4	2.8	46	8.1	2.8	3.5	2.2	.79	17
10	5.2	5.4	2.1	9.3	3.6	31	4.4	2.7	3.5	2.3	.93	15
11	5.3	4.2	.54	9.5	2.5	42	4.0	2.7	3.4	1.6	1.8	10
12	5.3	5.0	.32	12	1.6	46	5.0	2.6	3.3	1.9	2.5	12
13	5.4	3.4	.42	11	1.8	46	4.8	2.6	3.2	1.9	.79	7.0
14	5.4	2.7	.66	11	36	43	3.8	2.6	3.2	2.0	.93	5.5
15	5.4	2.7	.79	5.4	63	37	3.7	7.0	3.1	2.1	2.7	7.0
16	5.5	5.2	.66	1.7	54	36	3.7	14	3.0	2.2	.86	8.4
17	5.5	7.8	1.2	1.8	72	36	3.6	6.2	3.0	2.2	2.1	3.8
18	5.5	5.2	.60	1.9	76	27	3.6	5.8	2.9	2.2	2.4	5.2
19	3.8	4.0	.54	3.2	95	27	3.5	7.0	3.3	1.7	3.0	5.8
20	4.4	3.4	.54	11	38	26	3.5	10	2.1	1.6	2.4	3.7
21	5.0	5.4	8.1	10	16	26	3.4	5.5	2.7	1.3	2.5	7.0
22	6.0	7.0	7.1	11	259	19	3.4	5.4	3.2	1.4	4.1	3.7
23	7.2	5.0	2.4	1.6	385	18	3.3	5.2	4.1	1.4	2.6	3.3
24	7.3	2.4	3.7	1.4	204	14	3.3	5.1	3.8	1.4	3.6	3.4
25	2.8	.73	3.2	1.7	134	15	3.3	5.0	1.7	1.5	6.3	3.0
26	5.2	.73	2.9	1.4	82	18	3.2	4.9	1.8	1.3	7.3	4.7
27	5.1	.73	2.1	1.5	57	25	3.2	4.8	1.8	4.6	2.7	4.3
28	8.1	1.2	1.5	2.0	38	19	3.1	4.7	2.0	2.3	1.7	2.7
29	7.9	1.0	1.5	14	41	16	3.1	4.6	1.8	1.5	1.9	4.7
30	7.6	1.2	2.1	29	---	14	3.1	4.5	2.4	1.6	4.0	9.0
31	9.2	---	3.4	17	---	16	---	4.4	---	1.2	4.2	---
TOTAL	173.7	166.19	56.04	204.5	1703.0	1017	169.8	150.4	94.4	349.9	70.53	188.3
MEAN	5.60	5.54	1.81	6.60	58.7	32.8	5.66	4.85	3.15	11.3	2.28	6.28
MAX	9.2	15	8.1	29	385	71	16	14	4.3	114	7.3	17
MIN	2.8	.73	.32	1.3	1.6	14	3.1	2.6	1.7	1.2	.79	2.6
AC-FT	345	330	111	406	3380	2020	337	298	187	694	140	373

CAL YR 1979 TOTAL 3684.83 MEAN 10.1 MAX 250 MIN .32 AC-FT 7310
WTR YR 1980 TOTAL 4343.76 MEAN 11.9 MAX 385 MIN .32 AC-FT 8620

BEST DOCUMENT AVAILABLE

09419515 MUDDY RIVER ABOVE LAKE MEAD NEAR OVERTON, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1969 to January 1974, April 1979 to current year (published as Muddy River below Overton sta. no. 09419510, October 1969 to January 1974).
CHEMICAL ANALYSES, SPECIFIC CONDUCTANCES, AND WATER TEMPERATURES: October 1969 to January 1974, quarterly; April 1979 to current year, monthly.
BIOLOGICAL DATA: May 1979 to current year, monthly (seasonal).
MICROBIOLOGICAL AND SEDIMENT DATA: April 1979 to current year, monthly.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 4,120 micromhos Dec. 11, 7979; minimum, 1,880 micromhos Aug. 17, 1979.
PHYTOPLANKTON: Maximum, 12,000 cells/mL Mar. 12,1980; minimum, <1 cells/mL July 17, 1979.
FECAL STREPTOCOCCI: Maximum, 6,800 colonies/100 mL June 19, 1979; minimum, 820 colonies/100 mL (non-ideal colony count) Nov. 20, 1979.
WATER TEMPERATURES: Maximum, 28.0°C July 1, 1971; minimum, 7.0°C Jan. 6, 1970, Jan. 17, 1979.
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 1,520 mg/L Aug. 17, 1979; minimum, 121 mg/L Aug. 13, 1980.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)
OCT 17...	1245	8.5	2220	7.9	21.5	46	8.1	31	2100	2800	730
NOV 20...	1245	4.5	3420	8.2	9.0	40	10.8	15	K600	K820	1200
DEC 11...	1315	1.0	4120	8.2	10.5	14	--	--	K180	1400	1200
JAN 15...	1100	12	2980	8.0	15.5	--	10.7	19	200	4000	880
FEB 13...	1100	2.6	3630	8.0	11.0	54	10.4	16	260	1300	1200
MAR 12...	1045	46	2460	8.0	16.0	190	9.4	28	1500	K5800	730
APR 15...	1100	8.4	2750	8.1	18.0	44	9.6	21	720	K2200	860
MAY 13...	1130	4.0	2720	8.1	20.0	26	9.1	18	350	1500	820
JUN 17...	1000	4.3	3340	8.1	21.5	68	8.6	34	K2400	K3600	1100
JUL 16...	0945	3.9	3100	8.1	23.0	21	8.6	12	--	2300	970
AUG 13...	0800	1.7	3700	8.1	25.5	27	6.3	21	--	1700	1100
SEP 16...	1100	13	2280	8.2	21.0	78	6.5	13	--	3000	680

K: NON-IDEAL COLONY COUNT.

09419515 MUDDY RIVER ABOVE LAKE MEAD NEAR OVERTON, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)
OCT									
17...	1245	150	87	250	4.0	26	330	0	270
NOV									
20...	1245	230	140	400	5.1	20	470	0	380
DEC									
11...	1315	200	170	510	6.4	35	540	0	440
JAN									
15...	1100	170	110	370	5.4	28	--	--	--
FEB									
13...	1100	220	160	430	5.4	31	490	0	400
MAR									
12...	1045	150	87	310	5.0	27	370	0	300
APR									
15...	1100	180	100	320	4.7	28	400	0	320
MAY									
13...	1130	170	97	310	4.7	28	380	0	310
JUN									
17...	1000	210	130	400	5.3	34	--	--	--
JUL									
16...	0945	190	120	360	5.0	32	400	0	330
AUG									
13...	0800	210	140	430	5.6	39	410	0	340
SEP									
16...	1100	140	81	250	4.2	25	340	0	280

DATE	TIME	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)
OCT								
17...	1245	690	170	2.9	43	1640	1580	37.6
NOV								
20...	1245	1200	270	--	49	2590	2540	31.3
DEC								
11...	1315	1400	380	3.5	48	--	3010	--
JAN								
15...	1100	1000	240	4.9	45	2230	--	73.5
FEB								
13...	1100	1300	310	--	50	2860	2750	20.1
MAR								
12...	1045	780	210	3.0	34	1770	1790	220
APR								
15...	1100	890	240	--	39	2050	2000	46.7
MAY								
13...	1130	870	220	--	44	2060	1930	22.0
JUN								
17...	1000	1100	270	3.0	44	3580	--	30.0
JUL								
16...	0945	1000	250	3.1	31	2330	2190	24.5
AUG								
13...	0800	1300	370	3.8	32	2790	2620	12.7
SEP								
16...	1100	700	200	3.0	28	1670	1590	59.5

09419515 MUDDY RIVER ABOVE LAKE MEAD NEAR OVERTON, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)
OCT								
17...	1245	.30	.040	.32	.080	.060	.70	.56
NOV								
20...	1245	.32	.020	.30	.100	.100	--	.52
DEC								
11...	1315	.32	.020	--	.090	.040	.79	.78
JAN								
15...	1100	.44	.020	.45	.140	.070	.75	--
FEB								
13...	1100	.43	.020	.45	.180	.210	.51	.37
MAR								
12...	1045	.44	.070	.52	--	.370	--	.52
APR								
15...	1100	.28	.020	.28	.080	.040	1.0	.60
MAY								
13...	1130	.16	.010	.14	.090	.040	.51	.42
JUN								
17...	1000	.09	.010	.12	.060	.040	.94	.59
JUL								
16...	0945	.00	.020	.00	.040	.030	.96	.59
AUG								
13...	0800	.00	.020	.03	.080	.050	.92	--
SEP								
16...	1100	.25	.010	.20	.050	.040	.78	.65

DATE	TIME	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED (MG/L AS C)
OCT								
17...	1245	1.1	.94	.150	.060	--	9.8	.6
NOV								
20...	1245	--	.92	--	.080	8.0	--	--
DEC								
11...	1315	1.2	--	.110	.050	8.0	--	--
JAN								
15...	1100	1.4	--	.230	.070	--	4.1	--
FEB								
13...	1100	1.1	1.0	.150	.040	9.6	--	--
MAR								
12...	1045	1.5	1.4	.450	.140	10	--	--
APR								
15...	1100	1.4	.92	.260	.160	--	12	.5
MAY								
13...	1130	.77	.60	.420	--	10	--	--
JUN								
17...	1000	1.1	.75	.400	.040	15	--	--
JUL								
16...	0945	1.0	.62	.190	.120	--	14	--
AUG								
13...	0800	1.0	--	.350	.270	--	--	--
SEP								
16...	1100	1.1	.89	.120	.120	3.8	--	--

09419515 MUDDY RIVER ABOVE LAKE MEAD NEAR OVERTON, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, TOTAL (UG/L AS BA)	BARIUM, DIS-SOLVED (UG/L AS BA)	CADMIUM TOTAL (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, TOTAL (UG/L AS CO)	COBALT, DIS-SOLVED (UG/L AS CO)
OCT 17...	1245	40	38	200	200	0	0	0	0	1	0
JAN 15...	1100	60	47	200	200	0	0	10	0	5	0
APR 15...	1100	41	47	100	100	0	0	10	10	0	0
JUL 16...	0945	83	74	--	100	1	0	10	0	--	2

DATE	TIME	COPPER, TOTAL (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)
OCT 17...	1245	1	0	1400	60	1	2
JAN 15...	1100	9	0	3400	20	6	0
APR 15...	1100	1	2	1100	30	3	0
JUL 16...	0945	3	3	770	60	0	0

DATE	TIME	MANGA-NESE, TOTAL (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	NICKEL, TOTAL (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)
OCT 17...	1245	100	50	.1	.1	5	2
JAN 15...	1100	270	60	.0	.0	5	0
APR 15...	1100	240	160	.0	.1	3	0
JUL 16...	0945	130	80	.5	.3	2	0

DATE	TIME	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, TOTAL (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT 17...	1245	1	1	0	0	--	20
DEC 11...	1315	--	--	0	--	--	--
JAN 15...	1100	1	1	0	0	160	160
MAR 12...	1045	--	--	6	--	--	--
APR 15...	1100	1	1	0	0	10	0
JUN 17...	1000	--	--	0	--	--	--
JUL 16...	0945	1	1	0	0	30	20
AUG 13...	0800	--	--	0	--	--	--

09419515 MUDDY RIVER ABOVE LAKE MEAD NEAR OVERTON, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE	MAR 12,80	MAY 13,80	JUN 17,80	JUL 16,80	AUG 13,80	SEP 16,80
TIME	1045	1130	1000	0945	0800	1100
TOTAL CELLS/ML	12000	930	5600	6600	6000	830
DIVERSITY: DIVISION	0.3	0.5	0.3	1.3	1.5	1.2
.CLASS	0.3	0.5	0.3	1.4	1.5	1.2
..ORDER	0.4	0.6	0.3	2.2	1.6	1.2
...FAMILY	0.5	1.9	1.1	2.6	1.8	1.5
....GENUS	0.5	2.0	1.2	2.9	1.9	1.6

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)												
.CHLOROPHYCEAE												
..CHLOROCOCCALES												
...OOCYSTACEAE												
....DICTYOSPHAERIUM	--	-	29	3	--	-	--	-	--	-	--	-
...SCENEDESMACEAE												
....CRUCIGENIA	11000#	94	--	-	--	-	--	-	--	-	--	-
....SCENEDESMUS	--	-	--	-	--	-	400	6	--	-	--	-
..VOLVOCALES												
...CHLAMYDOMONADACEAE												
....CARTERIA	--	-	--	-	100	2	850	13	1100#	19	--	-
....CHLAMYDOMONAS	140	1	43	5	150	3	200	3	--	-	13	2
CHRYSOPHYTA												
.BACILLARIOPHYCEAE												
..CENTRALES												
...ANAULACEAE												
....TERPSINOE	*	0	--	-	--	-	--	-	--	-	--	-
...COSCINODISCACEAE												
....CYCLOTELLA	*	0	--	-	50	1	250	4	130	2	--	-
....STEPHANODISCUS	--	-	--	-	--	-	800	12	--	-	--	-
..PENNALES												
...ACHNANTHACEAE												
....ACHNANTHES	--	-	72	8	--	-	200	3	--	-	--	-
...CYMBELLACEAE												
....CYMBELLA	*	0	--	-	50	1	--	-	--	-	--	-
...FRAGILARIACEAE												
....SYNEDRA	*	0	--	-	150	3	--	-	*	0	--	-
...NAVICULACEAE												
....ENTOMONEIS	*	0	43	5	50	1	--	-	100	2	13	2
....FRUSTULIA	*	0	--	-	--	-	--	-	--	-	--	-
....NAVICULA	220	2	140#	15	550	10	350	5	130	2	78	9
...NITZSCHIACEAE												
....NITZSCHIA	160	1	550#	58	4400#	79	2500#	38	1700#	28	220#	27
...SURIRELLACEAE												
....SURIRELLA	69	1	43	5	50	1	50	1	--	-	--	-
.CHRYSOPHYCEAE												
..CHRYSOMONADALES												
...OCHROMONADACEAE												
....OCHROMONAS	--	-	--	-	--	-	100	2	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)												
.CRYPTOPHYCEAE												
..CRYPTOMONADALES												
...CRYPTOMONADACEAE												
....CRYPTOMONAS	--	-	14	2	--	-	50	1	*	0	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)												
.CYANOPHYCEAE												
..CHROOCOCCALES												
...CHROOCOCCACEAE												
....COCCOCHLORIS	--	-	--	-	--	-	100	2	--	-	--	-
..HORMOGONALES												
...OSCILLATORIACEAE												
....OSCILLATORIA	96	1	--	-	--	-	750	11	2800#	46	490#	59
EUGLENOPHYTA (EUGLENOIDS)												
.EUGLENOPHYCEAE												
..EUGLENALES												
...EUGLENACEAE												
....TRACHELOMONAS	--	-	--	-	--	-	--	-	--	-	13	2

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09419515 MUDDY RIVER ABOVE LAKE MEAD NEAR OVERTON, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
OCT				
17...	1245	8.5	266	6.1
NOV				
20...	1245	4.5	288	3.5
DEC				
11...	1315	1.0	186	.51
JAN				
15...	1100	12	443	15
FEB				
13...	1100	2.6	284	2.0
MAR				
12...	1045	46	715	89
APR				
15...	1100	8.4	128	2.9
MAY				
13...	1130	4.0	262	2.8
JUL				
16...	0945	3.9	232	2.4
AUG				
13...	0800	1.7	121	.55
SEP				
16...	1100	13	310	11

09419610 LEE CANYON NEAR CHARLESTON PARK, NV

LOCATION.--Lat 36°20'25", long 115°39'00", in NE¼ sec.35, T.18 S., R.56 E., Clark County, Hydrologic Unit 15010015, in Toiyabe National Forest, on right bank 50 ft (15 m) above bridge on Deer Creek Springs road, just south of junction with State Highway 52, and 5.5 mi (8.8 km) north of Charleston Park.

DRAINAGE AREA.--9.20 mi^2 (23.83 km^2).

PERIOD OF RECORD.--Water years 1961-63 (annual maximum), October 1963 to current year.

GAGE.--Water-stage recorder with rain-gage attachment. Altitude of gage is 7,820 ft (2,384 m) from topographic map. Oct. 1, 1960, to Sept. 30, 1963, crest-stage gage at same site and datum. Prior to May 16, 1973, on right bank at datum 0.14 ft (0.043 m) higher.

REMARKS.--Records good. No flow exists in this channel except at times of heavy rainfall or rapid snowmelt. Discharge measurements or observation of no flow are generally made once a month.

AVERAGE DISCHARGE.--17 years, 0.030 ft^3/s (0.0008 m^3/s), 22 acre-ft/yr (27,100 m^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 880 ft^3/s (24.9 m^3/s) July 28, 1969, gage height, 3.60 ft (1.097 m), on basis of slope-area measurement of peak flow; no flow most of the time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9.3 ft^3/s (0.26 m^{3}s) July 26, gage height, 1.00 ft (0.305 m); no flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.37	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	.00	.00	.00	.00	.00	.00	.00	.00	.00	.37	.00	.00
MEAN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.012	.000	.000
MAX	.00	.00	.00	.00	.00	.00	.00	.00	.00	.37	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	.00	.00	.7	.00	.00

CAL YR 1979 TOTAL 0.00 MEAN .000 MAX .00 MIN .00 AC-FT .00
WTR YR 1980 TOTAL 0.37 MEAN .001 MAX .37 MIN .00 AC-FT .7

09419679 LAS VEGAS WASTEWAY NEAR EAST LAS VEGAS, NV

LOCATION.--Lat 36°06'22", long 115°01'07", in NW¼ SE¼ sec.23, T.21 S., R.62 E., Clark County, Hydrologic Unit 15010015, on left bank 500 ft (152 m) west of Hollywood Blvd, and 1.5 mi (2.4 km) northeast of East Las Vegas Civic Center.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1979 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,640 ft (500 m), from topographic map.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 734 ft^3/s (20.8 m^3/s) July 2, 1980, gage height, 5.15 ft (1.570 m); minimum daily, 45 ft^3/s (1.27 m^3/s) Aug. 22.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 734 ft^3/s (20.8 m^3s) July 2, gage height, 5.15 ft. (1.570 m); minimum daily, 66 ft^3/s (1.87 m^3s) Oct. 3, 5, Feb. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89	88	88	91	90	83	83	84	91	139	90	85
2	69	76	88	90	84	82	86	92	86	301	90	81
3	66	81	90	84	83	104	86	95	85	111	88	76
4	67	82	89	84	81	85	84	91	91	104	88	79
5	66	85	90	92	72	83	84	88	93	103	87	93
6	71	78	90	93	66	92	88	82	91	101	85	99
7	72	75	89	93	70	95	85	83	92	100	87	97
8	74	79	86	91	75	86	80	82	85	92	76	97
9	72	90	85	127	81	84	77	80	83	89	79	87
10	75	86	87	96	76	86	75	87	79	88	77	83
11	79	86	87	93	74	112	76	81	77	87	80	77
12	74	90	88	83	69	80	78	81	78	90	86	94
13	79	86	87	75	83	78	86	81	81	89	84	90
14	85	88	79	85	241	87	85	81	86	92	81	89
15	88	82	78	91	120	87	84	94	83	93	86	93
16	89	75	81	92	125	89	80	88	87	84	91	92
17	87	77	85	92	241	86	80	90	84	81	90	89
18	85	79	75	95	107	84	81	87	83	84	92	81
19	91	80	75	154	124	78	89	87	83	82	90	70
20	89	85	73	83	106	84	88	91	83	83	92	70
21	89	81	75	92	94	84	85	87	87	89	87	72
22	86	82	84	92	91	90	80	87	83	89	86	74
23	88	87	88	91	95	91	74	87	81	89	89	82
24	87	86	84	94	92	87	72	93	82	90	88	81
25	80	86	83	93	91	100	75	89	81	89	82	77
26	80	88	90	98	90	70	80	90	81	88	87	83
27	75	82	93	99	87	78	83	82	81	91	78	97
28	74	81	89	95	87	79	82	85	87	89	67	94
29	74	83	93	201	84	81	85	88	85	83	80	93
30	72	91	90	94	---	81	92	84	86	88	82	88
31	77	---	93	95	---	83	---	86	---	125	91	---
TOTAL	2449	2495	2652	3028	2879	2677	2463	2683	2535	3103	2636	2563
MEAN	79.0	83.2	85.5	97.7	99.3	86.4	82.1	86.5	84.5	100	85.0	85.4
MAX	91	91	93	201	241	112	92	95	93	301	92	99
MIN	66	75	73	75	66	78	72	80	77	81	67	70
AC-FT	4860	4950	5260	6010	5710	5310	4890	5320	5030	6150	5230	5080

WTR YR 1980 TOTAL 32163 MEAN 87.9 MAX 301 MIN 66 AC-FT 63800

BEST DOCUMENT AVAILABLE

09419679 LAS VEGAS WASTEWAY NEAR EAST LAS VEGAS, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1979 to current year.
SPECIFIC CONDUCTANCES: May to July and September 1979, weekly; October 1979 to current year, hourly.
WATER TEMPERATURES: May 1979 to July 1980, monthly; August and September 1980, hourly.

INSTRUMENTATION.--Specific-conductance recorder from May 1979 to current year. Temperature recorder August and September 1980.

REMARKS.--Daily specific-conductance data prior to October 1979 are questionable, and therefore not published. No specific conductance data available for numerous periods during current year due to recorder malfunctions.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 3,460 micromhos Feb. 11, 1980; minimum, 1,510 micromhos Sept. 10, 1980.
WATER TEMPERATURES: Maximum, 30.0°C Aug. 26, 1980; minimum, 17°C Mar. 11, 1980.

EXTREMES FOR CURRENT YEAR (MEASUREMENTS AT LEAST ONCE-DAILY).--
SPECIFIC CONDUCTANCES: Maximum, 3,460 micromhos Feb. 11; minimum, 1,510 micromhos Sept. 10.
WATER TEMPERATURES: Maximum, 30.0°C Aug. 26; minimum, presumably not measured (see "Period of Record").

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, WATER (DEG C)
MAY , 1979				
11...	1345	106	2380	24.5
14...	1000	74	2500	--
15...	1315	91	--	24.5
16...	0930	61	2460	22.0
29...	1215	98	2300	22.5
JUN				
01...	0900	59	2380	22.5
06...	1200	E71	2330	--
13...	0915	58	2260	25.0
18...	1100	84	2340	--
JUL				
10...	1115	71	2440	25.5
AUG				
02...	1650	--	--	29.5
10...	0945	57	--	26.5
SEP				
04...	1540	83	--	28.5
07...	0800	45	2320	--
14...	0745	41	2360	--
24...	1400	91	2240	--

E: ESTIMATED.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, WATER (DEG C)
OCT , 1979				
02...	1010	61	2500	25.0
NOV				
01...	1145	85	--	23.0
DEC				
03...	1100	66	--	20.0
JAN , 1980				
02...	1545	107	--	19.5
FEB				
04...	1030	84	--	19.5
MAR				
11...	1000	138	--	17.0
APR				
01...	1145	80	--	19.0
MAY				
05...	0945	81	--	24.0
JUN				
05...	1045	90	--	24.0
JUL				
01...	0815	54	--	25.5

09419679 LAS VEGAS WASTEWAY NEAR EAST LAS VEGAS, NV--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	2260	1870	2340	2080			---	---	2550	2120
2	---	---	2330	1880	2460	2090			---	---	2570	2050
3	2630	1950	2270	1790	2440	2120			---	---	---	---
4	2580	1920	2220	1760	2550	2190			---	---	---	---
5	2590	1940	2270	1750	2460	2110			2650	2170	---	---
6	2510	1920	2450	2000	2570	2160			---	---	---	---
7	2540	1900	2540	2080	2490	2120			---	---	---	---
8	2480	1870	2560	2200	2550	2080			3120	2440	---	---
9	2530	1990	2700	2300	2440	2040			3280	2210	---	---
10	2560	2050	2730	2200	2350	2030			3320	2240	---	---
11	2520	2080	2580	2180	2390	2140			3460	2300	---	---
12	2580	2090	2590	2140	2420	2160			3190	2190	---	---
13	2480	2100	2550	2160	2440	---			3280	2060	---	---
14	---	---	2480	2100	2600	2290			---	---	---	---
15	---	1830	2430	2090	2510	2170			2270	1750	---	---
16	2240	1760	2620	2160	2600	2220			2710	2160	---	---
17	2170	1740	2550	1990	2320	2110			---	---	---	---
18	2190	1770	2400	1980	2670	2310			2490	2020	---	---
19	2300	1900	2400	1890	2690	2290			2700	1560	2590	2150
20	2380	1800	2550	2060	2720	2280			2700	2020	2610	2120
21	2260	1790	2520	1990	2740	2300			2790	2390	2370	2080
22	---	---	2260	1890	2730	2230			2850	2420	2470	1970
23	---	---	2260	1870	2380	2070			2960	2350	2400	1970
24	---	---	2340	1890	2650	2120			2820	2440	2400	1960
25	---	---	2280	1750	2400	2080			2890	2310	2140	1530
26	---	---	2280	1880	2340	2080			2870	2260	2520	2100
27	---	---	2500	2030	---	---			3210	2280	2750	2110
28	---	---	2420	2030	---	---			2790	2230	2800	2110
29	2400	1860	2440	2000	---	---			2800	2210	2730	2110
30	2420	1860	2360	2030	---	---			---	---	2770	2110
31	2290	1870	---	---	---	---			---	---	2710	2140
MONTH	2630	1740	2730	1750	2740	2030			3460	1560	2800	1530

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	2630	2170	2430	2020	2490	1970	---	---	2340	1930	2590	1960
2	2590	2250	2440	2040	2390	1890	---	---	2370	1800	2660	1860
3	2540	2220	---	---	2390	1890	---	---	2290	1800	2550	1900
4	2560	2220	---	---	2270	1840	---	---	2310	1780	2360	1910
5	2860	2180	---	---	2250	1830	---	---	2310	1870	2330	1900
6	2530	2080	---	---	2400	1920	---	---	2370	1900	2410	1810
7	2440	2070	---	---	2440	1970	---	---	2350	2000	2410	1620
8	2550	2240	---	---	2540	1950	2560	1990	2540	2090	2230	1600
9	2630	2200	---	---	2570	1960	2590	2060	2280	2160	2330	1600
10	2590	2210	---	---	2520	1980	2590	2050	2330	2220	2100	1510
11	2410	2260	---	---	2500	1850	2520	2040	2340	1870	2150	1730
12	2450	2000	---	---	2460	1860	---	---	1940	1640	2270	1850
13	2370	1880	---	---	2570	1950	---	---	2020	1590	2300	1790
14	2440	1850	---	---	2520	1980	---	---	1850	1550	---	---
15	2340	1990	2630	2040	2670	2020	---	---	---	---	---	---
16	2480	1920	2840	2080	---	---	---	---	1870	1550	---	---
17	2450	1960	2540	2040	---	---	---	---	1860	1550	---	---
18	2680	1980	2510	2030	---	---	---	---	2200	1540	---	---
19	2480	2030	2510	1990	---	---	---	---	2190	1780	---	---
20	2250	1940	2470	2000	---	---	---	---	2250	1850	---	---
21	2150	2150	2450	1960	---	---	---	---	2270	1830	---	---
22	2240	2140	2540	2030	---	---	2380	1960	2280	1850	---	---
23	2360	2230	2540	2010	---	---	2490	1940	2390	1770	2360	1950
24	2670	1930	2570	2090	---	---	2280	1890	2270	1800	2460	1960
25	2490	1990	2650	2070	2500	1960	2320	1920	2290	1740	2500	1990
26	2480	1820	2600	2040	2420	1930	2440	1860	2420	1890	2390	1990
27	2250	1830	2620	1980	2440	1950	2320	1860	2380	1880	2280	2010
28	2340	1880	2690	2170	---	---	2350	1720	2430	1880	2220	2010
29	2690	2020	2500	2080	---	---	2330	1850	2580	1950	2220	2120
30	2450	2020	2530	2090	---	---	2330	1780	2730	1980	---	---
31	---	---	2600	2000	---	---	2210	1630	2640	1970	---	---
MONTH	2860	1820	2840	1960	2670	1830	2590	1630	2730	1540	2660	1510
YEAR	3460	1510										

09419679 LAS VEGAS WASTEWAY NEAR EAST LAS VEGAS, NV--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1									---	---	28.5	24.5
2									---	---	28.5	24.5
3									---	---	29.0	25.5
4									---	---	29.0	25.0
5									---	---	29.5	26.5
6									---	---	29.5	26.5
7									---	---	28.5	27.0
8									---	---	28.5	26.5
9									---	---	28.0	26.0
10									---	---	28.0	25.0
11									---	---	28.5	26.5
12									---	---	28.5	26.0
13									---	---	27.5	26.0
14									---	---	---	---
15									---	---	---	---
16									---	---	---	---
17									---	---	---	---
18									---	---	---	---
19									29.0	25.0	---	---
20									29.5	26.0	---	---
21									29.5	25.5	---	---
22									28.5	26.0	---	---
23									28.0	25.0	27.5	24.0
24									28.5	25.0	27.5	24.0
25									29.5	27[illegible]	28.0	23.5
26									30.0	26.0	28.0	24.0
27									28.0	25.0	28.0	24.5
28									27.5	25.0	28.0	24.5
29									28.0	24.0	28.0	24.5
30									28.5	23.5	---	---
31									28.5	24.5	---	---
MONTH									30.0	23.5	29.5	23.5

09419700 LAS VEGAS WASH NEAR HENDERSON, NV

LOCATION.--Lat 36°05'20", long 114°59'05", in SE¼SW¼ sec.30, T.21 S., R.63 E., Clark County, Hydrologic Unit 15010015, on right bank at upstream end of 4.5-ft (1.37 m) pipe culvert on road, 3.5 mi (5.6 km) north of Henderson, and 6.0 mi (9.7 km) upstream from highwater line of Lake Mead at elevation 1,221.4 ft (372.28 m), National Geodetic Vertical Datum of 1929.

DRAINAGE AREA.--2,125 mi^2 (5,504 km^2), of which 1,518 mi^2 (3,932 km^2) contribute directly to surface runoff. Prior to Apr. 4, 1961, 2,179 mi^2 (5,644 km^2), of which 1,571 mi^2 (4,069 km^2) contributed directly to surface runoff.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1957 to current year.

REVISED RECORDS.--WSP 1926: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 1,540 ft (469 m), from topographic map. Prior to Apr. 4, 1961, at site 2.5 mi (4.0 km) downstream at various datums.

REMARKS.--Records fair. In closed basin above station, 2,150 acres (8.70 km^2) are irrigated, mostly by pumping from ground water. Discharge includes waste water from industrial plants and sewage effluent.

AVERAGE DISCHARGE.--23 years, 40.7 ft^3/s (1.153 m^3/s), 29,490 acre-ft/yr (36.4 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,510 ft^3/s (184 m^3/s) July 4, 1975, gage height, 10.67 ft (3.252 m), from floodmarks, from rating curve extended above 3,340 ft^3/s (94.6 m^3/s) on basis of area-velocity computation to determine peak flow; minimum daily, 4.8 ft^3/s (0.14 m^3/s) Aug. 17, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 994 ft^3/s (28.2 m^3/s) Feb. 17, gage height, 9.25 ft (2.819 m); minimum, 41 ft^3/s (1.16 m^3/s) Oct. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67	75	82	87	84	71	81	86	80	108	88	74
2	63	72	82	80	84	74	84	89	75	241	83	73
3	59	71	84	79	83	89	82	90	72	103	81	72
4	59	77	83	78	81	79	86	89	75	96	81	75
5	60	79	84	81	75	77	87	86	80	94	80	78
6	61	76	84	91	67	79	89	76	78	95	78	82
7	64	71	85	90	69	95	90	76	80	96	82	103
8	64	71	79	88	72	78	83	74	77	90	73	110
9	67	80	80	91	74	103	83	73	75	81	71	88
10	66	77	81	124	75	144	77	77	69	78	72	103
11	72	80	81	89	70	132	78	77	66	79	73	94
12	67	81	82	99	68	79	77	73	64	76	73	92
13	68	82	82	84	74	72	89	73	67	81	78	87
14	74	82	77	82	203	77	87	73	72	82	71	89
15	80	78	78	79	186	76	88	85	70	88	75	93
16	79	71	74	83	88	79	81	81	73	81	79	92
17	79	71	83	89	362	78	82	80	75	74	81	89
18	76	74	71	91	107	76	78	82	72	75	82	81
19	79	75	70	162	91	74	86	81	72	74	82	70
20	79	78	68	128	108	79	87	83	71	77	84	70
21	82	78	69	95	83	81	[illegible]	82	70	81	82	72
22	81	75	75	88	79	83	80	80	70	85	77	74
23	80	79	80	85	80	85	74	80	66	85	80	82
24	81	81	79	87	80	85	70	83	68	86	86	81
25	76	80	78	88	79	98	74	83	68	85	86	77
26	77	82	77	89	77	80	75	81	68	83	78	80
27	71	77	89	92	75	76	80	77	68	86	79	79
28	71	76	84	89	75	76	81	76	78	87	74	82
29	72	78	83	159	75	75	81	79	79	80	70	80
30	69	85	85	140	---	77	88	75	79	77	66	78
31	73	---	84	82	---	75	---	74	---	117	76	---
TOTAL	2216	2312	2465	2969	2822	2602	2465	2474	2177	2821	2421	2500
MEAN	71.5	77.1	79.5	95.8	97.3	83.9	82.2	79.8	72.6	91.0	78.1	83.3
MAX	82	85	89	162	362	144	90	90	80	241	88	110
MIN	59	71	68	78	67	71	70	73	64	74	66	70
AC-FT	4400	4590	4890	5890	5600	5160	4890	4910	4320	5600	4800	4960

CAL YR 1979 TOTAL 25593 MEAN 70.1 MAX 133 MIN 52 AC-FT 50760
WTR YR 1980 TOTAL 30245 MEAN 82.6 MAX 362 MIN 59 AC-FT 59990

BEST DOCUMENT AVAILABLE

09419700 LAS VEGAS WASH NEAR HENDERSON, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1957 to October 1961, September and October 1962, May 1963 to June 1965, and December 1965 to current year.

CHEMICAL ANALYSES: January 1964 to January 1965, twice-monthly; October 1967 to January 1969, weekly; February 1969 to January 1970 and July 1970 to current year, monthly.

SPECIFIC CONDUCTANCES: January 1964 to January 1965, twice-monthly; October to November 1967 and April 1968 to January 1969, weekly; February 1969 to January 1970 and July 1970 to current year, monthly.

WATER TEMPERATURES: February 1957 to October 1961, September and October 1962, May 1963 to June 1965, and December 1965 to current year, monthly.

SEDIMENT DATA: January 1977 to current year, monthly.

REMARKS.--Discharge includes sewage effluent and some waste water from industrial plants.

COOPERATION.--All water-quality sampling and analyses prior to July 1970, plus nutrient analyses for period July 1970 to September 1972, from U.S. Environmental Protection Agency. Data in addition to those listed under "Period of Record" for January 1964 to June 1970 may exist in files of U.S. Environmental Protection Agency.

EXTREMES MEASURED FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCES: Maximum, 6,960 micromhos Sept. 19, 1968; minimum, 1,680 micromhos Feb. 13, 1979.

WATER TEMPERATURES: Maximum, 28.0°C July 30, Sept. 3, 1958; minimum, 2.0°C Jan. 31, 1972.

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 347 mg/L July 11, 1978 (questionable value not verified by duplicate determination; second-highest value for period of record, 73 mg/L); minimum, 3 mg/L July 16, 1979.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, WATER (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
OCT									
16...	1030	62	2460	7.2	20.0	720	160	79	310
NOV									
09...	1400	62	2430	--	16.0	--	--	--	--
DEC									
10...	1130	61	2500	--	14.0	--	--	--	--
JAN									
14...	1130	66	2560	7.2	17.0	680	140	79	270
FEB									
12...	1015	60	3070	--	11.0	--	--	--	--
MAR									
11...	1145	144	2760	--	17.0	--	--	--	--
APR									
14...	0945	111	2130	7.5	18.0	700	150	80	240
MAY									
12...	1330	94	2450	--	19.5	--	--	--	--
JUN									
16...	1000	97	2190	--	21.5	--	--	--	--
JUL									
14...	0830	109	2180	7.3	23.5	630	140	68	220
AUG									
12...	0815	110	2300	--	26.0	--	--	--	--
SEP									
15...	1000	113	2160	--	22.5	--	--	--	--

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SOLIDS, SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
OCT									
16...	5.0	23	240	660	320	1.0	28	1670	1720
NOV									
09...	--	--	--	--	--	--	--	--	--
DEC									
10...	--	--	--	--	--	--	--	--	--
JAN									
14...	4.5	23	170	720	290	.8	25	1700	1650
FEB									
12...	--	--	--	--	--	--	--	--	--
MAR									
11...	--	--	--	--	--	--	--	--	--
APR									
14...	3.9	19	250	600	250	.9	23	1590	1510
MAY									
12...	--	--	--	--	--	--	--	--	--
JUN									
16...	--	--	--	--	--	--	--	--	--
JUL									
14...	3.8	18	210	540	250	.8	17	1430	1380
AUG									
12...	--	--	--	--	--	--	--	--	--
SEP									
15...	--	--	--	--	--	--	--	--	--

09419700 LAS VEGAS WASH NEAR HENDERSON, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
OCT 16...	280	.00	.06	18	--	--	3.0	2.8
NOV 09...	--	.00	.02	18	1.0	19	2.9	--
DEC 10...	--	.01	.02	--	--	19	5.1	--
JAN 14...	303	.05	.01	17	9.0	26	3.4	3.1
FEB 12...	--	.03	.08	16	3.0	19	2.1	--
MAR 11...	--	.04	.07	15	5.0	20	2.4	--
APR 14...	476	.01	.01	17	2.0	19	4.2	3.5
MAY 12...	--	.04	.02	15	5.0	20	1.9	--
JUN 16...	--	.00	.02	15	2.0	17	2.8	--
JUL 14...	421	.00	.02	--	--	15	3.3	3.0
AUG 12...	--	--	--	--	--	--	--	--
SEP 15...	--	.00	.01	--	--	19	3.2	--

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDED (T/DAY)
OCT 16...	1030	62	7	1.2
NOV 09...	1400	62	12	2.0
DEC 10...	1130	61	8	1.3
JAN 14...	1130	66	4	.71
FEB 12...	1015	60	6	.97
MAR 11...	1145	144	6	2.3
APR 14...	0945	111	11	3.3
MAY 12...	1330	94	7	1.8
JUN 16...	1000	97	10	2.6
JUL 14...	0830	109	20	5.9
AUG 12...	0815	110	18	5.3
SEP 15...	1000	113	6	1.8

BEST DOCUMENT AVAILABLE

09419800 LAS VEGAS WASH NEAR BOULDER CITY, NV

LOCATION.--Lat 36°07'20", long 114°54'15", in NE¼SE¼ sec.14, T.21 S., R.63 E., Clark County, Hydrologic Unit 15010015, in Lake Mead National Recreation Area, on left bank near mouth, on upstream side of North Shore Road, about 0.8 mi (1.3 km) upstream from high-water line of Lake Mead at elevation 1,221.4 ft (372.28 m), National Geodetic Vertical Datum of 1929, and 11 mi (18 km) north-northwest of Boulder City.

DRAINAGE AREA.--2,193 mi^2 (5,680 km^2), of which 1,586 mi^2 (4,108 km^2) contribute directly to surface runoff.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1969 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,280 ft (390 m), from topographic map. Prior to June 5, [illegible], water-stage recorder at site 50 ft (15 m) upstream at different datum.

REMARKS.--Records fair. In closed basin above station, 2,150 acres (8.70 km^2) are irrigated, mostly by pumping from ground water. Discharge includes sewage effluent.

AVERAGE DISCHARGE.--11 years, 73.1 ft^3/s (2.070 m^3/s), 52,960 acre-ft (65.3 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,430 ft^3/s (68.8 m^3/s) July 4, 1975, gage height, 12.32 ft (3.755 m), from indirect measurement of peak flow, site and datum then in use; minimum, 14 ft^3/s (0.40 m^3/s) July 7, 8, 1971.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 26, 1964, reached a stage of 7.5 ft (2.29 m), from floodmarks, discharge, 1,050 ft^3/s (29.7 m^3/s), from indirect measurement of peak flow, and another flood between 1964 and 1969 reached a stage of about 10 ft (3.05 m), from floodmarks, discharge, about 1,700 ft^3/s (48.1 m^3/s), from rating curve extended above 300 ft^3/s (8.50 m^3/s) on basis of theoretical weir and culvert formulas, datum prior to June 5, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 620 ft^3/s (17.6 m^3/s) Feb. 14, gage height, 12.03 ft (3.667 m); minimum daily, 76 ft^3/s (1.90 m^3/s) Oct. 5, 6, June 12, 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	93	90	98	101	107	115	99	99	91	181	104	97
2	89	89	96	96	108	117	99	99	89	310	93	97
3	82	88	92	98	112	130	97	101	86	[illegible]	94	84
4	77	92	97	98	101	127	94	101	86	115	92	88
5	76	91	94	100	95	118	94	97	89	112	86	93
6	76	97	94	107	87	118	96	89	85	103	90	98
7	82	91	94	109	81	139	97	90	87	99	87	118
8	82	88	92	113	81	117	99	92	90	96	85	131
9	85	93	90	103	85	114	99	90	86	90	80	114
10	87	98	91	132	90	114	94	96	78	87	85	129
11	90	94	93	119	85	137	106	90	77	88	90	123
12	90	94	94	117	82	122	105	86	76	91	87	114
13	88	99	96	107	79	106	112	86	78	91	92	106
14	92	97	95	107	174	106	99	82	85	91	82	107
15	98	94	83	102	149	111	99	94	92	93	83	109
16	100	89	86	100	154	110	94	92	89	92	90	107
17	99	83	93	99	283	112	100	89	92	82	97	106
18	96	86	96	99	125	112	102	92	89	83	97	99
19	99	87	88	119	131	103	108	91	87	81	100	87
20	100	90	86	167	202	102	114	92	85	85	102	83
21	104	94	84	115	118	105	112	93	85	88	106	87
22	102	89	87	106	117	103	109	91	86	93	104	88
23	102	91	98	102	122	108	99	91	81	96	103	97
24	102	96	101	101	118	115	90	90	76	94	109	98
25	102	94	96	102	118	123	85	93	77	92	108	93
26	98	94	94	102	122	109	83	92	80	92	97	97
27	93	90	103	104	117	94	89	92	78	87	97	97
28	89	85	101	104	117	94	92	90	81	89	94	101
29	87	89	99	114	123	96	92	94	82	90	93	100
30	87	93	102	213	---	100	96	88	82	90	90	99
31	85	---	98	112	---	94	---	87	---	118	100	---
TOTAL	2832	2745	2911	3468	3483	3471	2954	2849	2525	3224	2917	3047
MEAN	91.4	91.5	93.9	112	120	112	98.5	91.9	84.2	104	94.1	102
MAX	104	99	103	213	283	139	114	101	92	310	109	131
MIN	76	83	83	96	79	94	83	82	76	81	80	83
AC-FT	5620	5440	5770	6880	6910	6880	5860	5650	5010	6390	5790	6040

CAL YR 1979 TOTAL 33801 MEAN 92.6 MAX 152 MIN 67 AC-FT 67040
WTR YR 1980 TOTAL 36426 MEAN 99.5 MAX 310 MIN 76 AC-FT 72250

BEST DOCUMENT AVAILABLE

09419800 LAS VEGAS WASH NEAR BOULDER CITY, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 1964 to January 1965, September 1966 to current year.
CHEMICAL ANALYSES: January 1964 to January 1965, twice-monthly; September 1966 to January 1969, weekly; February to October 1969, monthly; November 1969 to January 1970, twice-monthly; February 1970 to July 1974, monthly; August 1974 to current year, twice-monthly.
SPECIFIC CONDUCTANCES: January 1964 to January 1965, twice-monthly; September 1966 to December 1967 and May 1968 to January 1969, weekly; February to October 1969, monthly; November 1969 to January 1970, twice-monthly; February 1970 to July 1974, monthly; August 1974 to May 1975, twice-monthly; June 1975 to March 1976, 4 times per hour (incomplete record due to recorder malfunctions) and twice-monthly; April to October 1976, twice-monthly; November 1976 to September 1977, 4 times per hour (incomplete record due to recorder malfunctions) and twice-monthly; October 1977 to May 1978, 2-4 times per month; June 1978 to January 1979, 3-5 times per week; February to August 1979, twice-monthly; September and October 1979, 4 times per hour; November 1979 to current year, hourly.
MICROBIOLOGICAL DATA: October 1977 to current year, twice-monthly (data prior to October 1977 unpublished).
WATER TEMPERATURES: January to December 1968, weekly; August 1969 to July 1974, monthly; August 1974 to May 1978, twice-monthly; June 1978 to January 1979, 3-5 times per week; February to October 1979, twice-monthly; November 1979 to current year, hourly.
SEDIMENT DATA: January 1974 to December 1976, monthly; January 1977 to August 1979, twice-monthly, September 1979 to current year, monthly.

INSTRUMENTATION.--Specific-conductance recorder from June 1975 to March 1976, November 1976 to April 1978, and August 1979 to current year. Temperature recorder from November 1979 to current year.

REMARKS.--Discharge includes sewage effluent and waste water from industrial plants. Most periods of no record for specific-conductance and temperature recorders are the result of instrument malfunctions. High flow during February 1980 destroyed the recorder probes, resulting in loss of record.

COOPERATION.--Microbiological analyses prior to October 1978 by Nevada Bureau of Laboratories and Research. All water-quality sampling and analyses to October 1969, plus nutrient and trace-metal analyses for period October 1969 to September 1972, from U.S. Environmental Protection Agency. Data in addition to those listed under "Period of Record" for January 1964 to September 1969 may exist in files of U.S. Environmental Protection Agency.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 9,120 micromhos Sept. 8, 1964; minimum, 2,380 micromhos Feb. 12, 1980.
FECAL STREPTOCOCCI: Maximum, 16,000 colonies/100 mL (non-ideal colony count) Aug. 14, 1978; minimum, 55 colonies/100 mL Jan. 10, 1977.
WATER TEMPERATURES: Maximum, 27.0°C July 17, 1980; minimum, 3.0°C Jan. 7, 1970.
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 69,600 mg/L Feb. 15, 1980 (hand-dipped sample; not depth integrated); minimum, 111 mg/L Jan. 28, 1975.

EXTREMES FOR CURRENT YEAR (MEASUREMENTS AT LEAST ONCE-DAILY).--
SPECIFIC CONDUCTANCES: Maximum, 4,520 micromhos Mar. 4; minimum, presumably not measured (see "Remarks").
WATER TEMPERATURES: Maximum, 27.0°C July 17; minimum, 8.0°C Feb. 10, 11.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L)	COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS (MG/L AS CACO3)
OCT												
01...	1530	100	3100	--	22.5	--	--	34	2700	K580	1500	--
16...	1230	113	3030	7.4	19.0	49	7.6	57	450	100	870	980
26...	1300	108	3050	--	17.5	22	--	36	K160	K28	K420	--
NOV												
09...	1300	103	3220	7.4	15.0	17	8.6	35	--	--	--	--
29...	1100	103	3160	--	10.5	27	--	33	200	73	K150	--
DEC												
10...	1415	107	3130	7.8	13.0	33	9.3	19	1200	460	410	--
28...	1300	113	3190	--	11.5	--	--	38	K61	K30	260	--
JAN												
14...	1300	117	3260	7.8	15.5	130	9.6	39	K100	K30	460	1000
28...	1145	101	3200	--	12.5	62	--	--	K63	K24	170	--
FEB												
12...	1200	96	3450	7.9	11.0	42	10.5	25	K46	K15	170	--
25...	1500	123	3610	--	17.5	540	--	100	K120	K40	K750	--
MAR												
11...	1230	117	3600	7.9	17.5	580	8.7	79	K100	K12	420	--
31...	1100	112	3250	--	15.5	66	--	47	K7900	170	260	--
APR												
14...	1100	130	3190	7.8	17.0	140	8.0	66	730	220	370	1000
MAY												
02...	1130	104	3070	--	19.5	74	--	49	670	--	480	--
12...	1415	90	3190	7.9	20.5	17	8.9	46	K71	K28	410	--
27...	1215	97	3030	--	20.0	--	--	75	K190	K18	1400	--
JUN												
16...	1100	99	2960	7.6	22.0	70	7.4	39	530	K40	1300	--
JUL												
14...	0945	123	3250	7.8	23.0	240	8.3	49	2200	K640	2900	1100
28...	0700	E89	3040	--	24.0	260	--	52	6000	K15	4200	--
AUG												
12...	0745	120	3080	7.7	25.0	16	6.9	49	7200	K570	2600	--
25...	1500	114	2990	--	26.0	94	--	56	1500	720	1400	--
SEP												
15...	1215	140	3070	8.2	23.0	200	7.3	47	7500	K180	1600	--
26...	1215	114	2970	--	22.5	88	--	40	1200	K130	680	--

K: NON-IDEAL COLONY COUNT.
E: ESTIMATED.

09419800 LAS VEGAS WASH NEAR BOULDER CITY, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	CALCIUM TOTAL (MG/L AS CA)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, TOTAL (MG/L AS MG)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, TOTAL (MG/L AS NA)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, TOTAL (MG/L AS K)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)
OCT										
01...	1530	--	--	--	--	--	--	--	--	--
16...	1230	210	240	--	93	--	340	4.7	--	35
26...	1300	--	--	--	--	--	--	--	--	--
NOV										
09...	1300	--	--	--	--	--	--	--	--	--
DEC										
10...	1415	--	--	--	--	--	--	--	--	--
28...	1300	--	--	--	--	--	--	--	--	--
JAN										
14...	1300	260	240	95	97	--	340	4.7	--	33
28...	1145	--	--	--	--	--	--	--	--	--
FEB										
12...	1200	--	--	--	--	--	--	--	--	--
25...	1500	--	--	--	--	--	--	--	--	--
MAR										
11...	1230	--	--	--	--	--	--	--	--	--
31...	1100	--	--	--	--	--	--	--	--	--
APR										
14...	1100	240	250	--	100	--	300	4.1	--	30
MAY										
02...	1130	--	--	--	--	--	--	--	--	--
12...	1615	--	--	--	--	--	--	--	--	--
27...	1215	--	--	--	--	--	--	--	--	--
JUN										
16...	1100	--	--	--	--	--	--	--	--	--
JUL										
14...	0945	--	290	130	92	--	300	3.9	32	31
28...	0700	--	--	--	--	--	--	--	--	--
AUG										
12...	0745	--	--	--	--	--	--	--	--	--
25...	1500	--	--	--	--	--	--	--	--	--
SEP										
15...	1215	340	--	110	--	280	--	--	39	--
26...	1215	--	--	--	--	--	--	--	--	--

DATE	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)
OCT									
01...	--	--	--	--	--	--	--	--	97
16...	210	1000	380	.9	37	2250	2250	686	268
26...	--	--	--	--	--	--	--	--	142
NOV									
09...	--	--	--	--	--	2300	--	640	131
DEC									
10...	--	--	--	--	--	2220	--	641	170
28...	--	--	--	--	--	--	--	--	245
JAN									
14...	170	1100	370	.9	35	2360	2320	746	380
28...	--	--	--	--	--	--	--	--	260
FEB									
12...	--	--	--	--	--	2540	--	658	172
25...	--	--	--	--	--	--	--	--	1530
MAR									
11...	--	--	--	--	--	2640	--	834	1660
31...	--	--	--	--	--	--	--	--	364
APR									
14...	230	900	370	1.0	31	2260	2120	793	521
MAY									
02...	--	--	--	--	--	--	--	--	374
12...	--	--	--	--	--	2390	--	580	205
27...	--	--	--	--	--	--	--	--	260
JUN									
16...	--	--	--	--	--	2120	--	567	290
JUL									
14...	170	1000	390	1.1	26	2400	2230	797	--
28...	--	--	--	--	--	--	--	--	488
AUG									
12...	--	--	--	--	--	2260	--	732	498
25...	--	--	--	--	--	--	--	--	523
SEP									
15...	180	930	380	.8	22	2160	--	816	640
26...	--	--	--	--	--	--	--	--	207

09419800 LAS VEGAS WASH NEAR BOULDER CITY, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
01...	1530	2.5	2.3	7.0	--	--	--	--	8.8
16...	1230	1.1	3.2	8.1	.20	13	2.0	1.6	15
26...	1300	1.6	3.1	7.6	1.0	13	2.0	--	8.9
NOV									
09...	1300	--	--	4.8	--	--	1.9	--	11
29...	1100	3.6	.69	11	--	--	1.9	--	10
DEC									
10...	1415	3.2	.81	11	3.0	18	2.6	--	15
28...	1300	5.1	.99	5.1	--	--	--	--	8.9
JAN									
14...	1300	2.3	.74	7.8	1.5	12	2.5	1.8	13
28...	1145	3.5	.44	6.9	--	11	2.3	--	17
FEB									
12...	1200	3.3	.96	--	--	14	1.4	--	10
25...	1500	1.5	.51	10	10	22	3.4	--	47
MAR									
11...	1230	1.1	.32	12	4.0	17	3.8	--	36
31...	1100	1.3	.49	11	3.0	16	1.9	--	14
APR									
14...	1100	1.5	.56	13	5.0	20	3.4	2.8	21
MAY									
02...	1130	1.6	.64	19	--	--	2.2	--	29
12...	1415	1.7	.98	8.9	3.1	15	1.6	--	12
27...	1215	1.6	.81	5.6	3.4	11	2.2	--	19
JUN									
16...	1100	1.7	1.0	8.8	3.2	15	2.6	--	17
JUL									
14...	0945	1.3	.99	3.7	6.3	12	3.1	1.9	28
28...	0700	--	--	2.6	7.4	12	2.9	--	26
AUG									
12...	0745	--	--	4.6	4.8	12	2.4	--	17
25...	1500	1.0	2.3	7.1	--	--	2.8	--	8.4
SEP									
15...	1215	.90	1.7	9.1	4.9	17	3.7	--	13
26...	1215	3.6	1.4	5.5	3.7	14	2.0	--	12

DATE	ARSENIC TOTAL (UG/L AS AS)	BARIUM, TOTAL (UG/L AS BA)	CADMIUM TOTAL (UG/L AS CD)	CHROMIUM, TOTAL (UG/L AS CR)	COPPER, TOTAL (UG/L AS CU)	IRON, TOTAL (UG/L AS FE)	LEAD, TOTAL (UG/L AS PB)	MANGANESE, TOTAL (UG/L AS MN)	MERCURY TOTAL (UG/L AS HG)	SELENIUM, TOTAL (UG/L AS SE)	SILVER, TOTAL (UG/L AS AG)	ZINC, TOTAL (UG/L AS ZN)
OCT												
01...	--	--	--	--	--	1500	--	--	--	--	--	--
16...	35	300	[illegible]	20	4	5000	58	2200	.0	1	0	40
26...	--	--	--	--	--	2600	--	--	--	--	--	--
NOV												
09...	26	400	0	8	10	2000	28	590	.1	1	0	--
29...	--	--	--	--	--	1800	--	--	--	--	--	--
DEC												
10...	28	400	0	10	16	3600	43	780	.0	1	0	30
28...	--	--	--	--	--	4300	--	--	--	--	--	--
JAN												
14...	44	300	1	20	23	11000	100	1400	.1	2	0	70
28...	--	--	--	--	--	4300	--	--	--	--	--	--
FEB												
12...	22	300	0	10	7	2900	41	670	.0	3	0	40
25...	--	--	--	--	--	36000	--	--	--	--	--	--
MAR												
11...	120	900	0	60	56	31000	530	5200	.1	3	1	220
31...	--	--	--	--	--	6100	--	--	--	--	--	--
APR												
14...	33	300	5	30	17	11000	260	1600	.1	3	0	80
MAY												
02...	--	--	--	--	--	7400	--	--	--	--	--	--
12...	50	300	0	30	18	8500	250	2200	.0	2	0	70
27...	--	--	--	--	--	6900	--	--	--	--	--	--
JUN												
16...	64	200	0	20	20	7900	300	2500	.0	1	0	80
JUL												
14...	66	500	1	50	39	26000	250	2800	.3	3	0	190
28...	--	--	--	--	--	17000	--	--	--	--	--	--
AUG												
12...	95	400	0	40	31	14000	640	3800	.6	2	0	120
25...	--	--	--	--	--	14000	--	--	--	--	--	--
SEP												
15...	43	400	1	40	28	15000	190	1800	.7	2	0	130
26...	--	--	--	--	--	5800	--	--	--	--	--	--

BEST DOCUMENT AVAILABLE

09419800 LAS VEGAS WASH NEAR BOULDER CITY, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	PCB TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLORDANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DIAZINON, TOTAL (UG/L)	DIELDRIN TOTAL (UG/L)	ENDOSULFAN, TOTAL (UG/L)
OCT 16...	1230	.00	.00	.0	.00	.00	.00	.04	.00	.00
JAN 14...	1300	.00	.01	.0	.00	.00	.00	.07	.00	.00

DATE	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTACHLOR, TOTAL (UG/L)	HEPTACHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALATHION, TOTAL (UG/L)	METHOXYCHLOR, TOTAL (UG/L)	METHYL PARATHION, TOTAL (UG/L)	METHYL TRITHION, TOTAL (UG/L)
OCT 16...	.00	.00	.00	.00	.01	.00	.00	.00	.00
JAN 14...	.00	.00	.00	.00	.01	.00	.00	.00	.00

DATE	NAPHTHALENES, POLYCHLOR. TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARATHION, TOTAL (UG/L)	PERTHANE TOTAL (UG/L)	TOXAPHENE, TOTAL (UG/L)	TOTAL TRITHION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
OCT 16...	--	.00	--	.00	0	--	.00	.00	.00
JAN 14...	.0	.00	.00	.00	0	.00	.04	.00	.00

DATE	TIME	CHLOR-A PHYTOPLANKTON CHROMOFLUOROM (UG/L)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L)
OCT 16...	1230	.910	<.466
NOV 09...	1300	.849	<.497
JAN 14...	1300	1.24	--
FEB 12...	1200	4.43	.113
MAR 11...	1230	3.30	<.468
APR 14...	1100	4.21	.508
MAY 12...	1415	3.04	.507
JUN 16...	1100	4.07	.405
JUL 14...	0945	6.02	.962
AUG 12...	0745	6.59	1.78

09419800 LAS VEGAS WASH NEAR BOULDER CITY, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT					
16...	1230	113	392	120	67
NOV					
09...	1300	103	278	77	--
29...	1100	103	187	52	--
DEC					
10...	1415	107	221	64	--
JAN					
14...	1300	117	1160	366	49
FEB					
12...	1200	96	498	129	--
15...	1045	E350	69600*	E65770	74
MAR					
11...	1230	117	3280	1040	59
APR					
14...	1100	130	1080	379	57
MAY					
12...	1415	90	822	200	46
JUN					
16...	1100	99	591	158	48
JUL					
14...	0945	123	2410	800	47
AUG					
12...	0745	120	2160	700	45
SEP					
15...	1215	140	1200	454	--

* DIP SAMPLE, NOT DEPTH INTEGRATED.
E: ESTIMATED.

09419800 LAS VEGAS WASH NEAR BOULDER CITY, NV--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
ONCE-DAILY

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	3290	2930	---	---	---	---	3200	3020	3370	3260	---	---
2	3220	2860	---	---	---	---	3190	3000	3350	3260	---	---
3	3380	2870	---	---	---	---	3220	3070	3330	3180	3630	3470
4	3230	3020	---	---	---	---	3250	3110	3340	3160	4520	3570
5	3240	2910	---	---	---	---	3270	3130	3340	3200	---	---
6	3320	3020	---	---	---	---	3270	3100	3400	3260	4490	3480
7	3200	2810	3030	2790	---	---	3290	3080	3440	3320	3580	3430
8	3220	2840	3080	2940	---	---	---	---	3470	3360	3580	3410
9	3090	2760	3080	2940	---	---	---	---	3520	3420	3700	3350
10	---	---	3050	2920	---	---	---	---	3520	3410	3570	3220
11	---	---	3120	2930	---	---	---	---	3500	3370	3370	3010
12	---	---	3130	2900	---	---	---	---	3570	2380	3490	3070
13	---	---	3030	2870	---	---	---	---	---	---	3830	3230
14	---	---	3030	2880	---	---	3290	3150	---	---	3520	3200
15	---	---	3120	2930	---	---	3200	3180	---	---	3380	3110
16	---	---	3100	2980	---	---	3290	3180	---	---	3350	3120
17	---	---	3140	2940	---	---	3290	3190	---	---	3230	3040
18	---	---	3300	3080	3260	3090	3280	3160	---	---	3280	3070
19	---	---	3340	3160	3220	3110	3240	3120	---	---	3420	3200
20	---	---	---	---	3420	3170	---	---	---	---	3450	3220
21	---	---	---	---	3430	3350	---	---	---	---	3400	3190
22	---	---	---	---	3380	3310	3310	---	---	---	3380	3240
23	---	---	---	---	3370	3150	3270	---	---	---	3310	3060
24	---	---	---	---	3260	3120	3250	---	---	---	---	---
25	---	---	---	---	3210	3070	3250	---	---	---	---	---
26	---	---	---	---	3240	2910	3280	---	---	---	3380	3010
27	---	---	3270	3090	3460	2820	3230	---	---	---	3470	3260
28	---	---	3350	3140	3230	2970	3300	3190	---	---	3410	3240
29	---	---	---	---	3220	2890	3290	3170	---	---	3500	3240
30	---	---	---	---	3260	3160	3500	2630	---	---	3410	3210
31	---	---	---	---	3220	2660	3390	3210	---	---	3470	3180
MONTH	3380	2760	3350	2790	3460	2660	3500	2630	3570	2380	4520	3010

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	3270	3100	3170	3000	3090	2940	---	---	---	---	3240	2850
2	3330	3110	3140	3010	3060	2930	---	---	---	---	3020	2830
3	3410	3210	3240	3010	3150	2940	3790	3470	---	---	3050	2820
4	3400	3200	3200	2970	3190	2980	3610	3480	---	---	3120	2820
5	3490	3270	3100	2980	3020	2910	3590	3350	---	---	3120	2860
6	3400	3260	3210	3000	3010	2880	3400	3230	---	---	3120	2860
7	3320	3140	3170	3050	---	---	---	---	---	---	2970	2770
8	3410	3140	3300	3080	---	---	---	---	---	---	---	---
9	3290	3250	3200	3060	---	---	---	---	---	---	---	---
10	3600	3300	3320	3050	---	---	---	---	---	---	---	---
11	3450	3250	3180	3060	---	---	---	---	---	---	---	---
12	3430	3220	3210	3050	---	---	---	---	---	---	---	---
13	3310	3150	---	---	3170	2990	---	---	---	---	---	---
14	3290	3160	---	---	3040	2910	3310	3150	---	---	---	---
15	3290	3110	---	---	3040	2860	3340	3170	---	---	---	---
16	3400	3130	---	---	3130	2810	3310	3140	---	---	3030	2820
17	3240	3100	---	---	2970	2860	3320	3160	---	---	3080	---
18	3300	3050	---	---	2970	2860	3340	3150	3040	2880	3110	2920
19	---	---	3150	2990	3040	2880	3380	3150	2960	2810	3100	2920
20	---	---	3170	3000	3060	2900	3330	3090	3120	2740	3110	2960
21	---	---	3190	2990	---	2900	---	---	3020	2720	3060	2920
22	---	---	3130	3020	3050	2910	---	---	2950	2760	3060	2880
23	---	---	3150	3040	3110	2920	---	---	---	---	3120	2920
24	3260	3100	3070	2960	3170	2880	---	---	---	---	3200	2920
25	3270	3110	3100	2970	---	---	---	---	---	---	3110	2910
26	3320	3120	3240	2970	---	---	---	---	3110	2860	3060	2910
27	3260	3060	3160	2790	---	---	---	---	3130	2930	2980	2870
28	3200	3030	3190	2990	---	---	---	---	3340	3010	2990	2880
29	3210	3030	3140	3040	---	---	---	---	---	---	3030	2850
30	3300	3020	3220	3020	---	---	---	---	3160	2970	3040	2860
31	---	---	3220	3030	---	---	---	---	3140	2890	---	---
MONTH	3600	3020	3320	2790	3190	2810	3790	3090	3340	2720	3240	2770
YEAR	4520	2380										

09419800 LAS VEGAS WASH NEAR BOULDER CITY, NV--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1			---	---	11.0	9.0	12.0	9.5	14.0	11.0	---	---
2			---	---	11.0	9.5	12.5	9.5	14.0	11.0	---	---
3			---	---	11.5	9.5	12.0	10.0	14.0	10.5	16.5	15.0
4			---	---	11.5	9.5	11.5	9.0	14.5	10.0	18.0	14.0
5			---	---	12.5	10.0	11.5	9.[illegible]	14.5	11.5	16.0	14.5
6			15.5	12.5	13.0	10.5	12.0	10.0	15.0	12.0	16.0	13.5
7			15.0	13.5	13.0	11.5	---	---	13.5	11.0	16.0	12.5
8			15.5	13.0	13.5	11.5	12.5	---	13.5	10.5	17.0	12.5
9			15.0	13.5	13.5	11.5	12.5	---	13.0	9.5	17.5	13.0
10			15.0	13.0	13.0	11.5	12.5	11.0	12.0	8.0	17.0	12.5
11			14.0	12.5	12.5	10.5	13.5	12.5	12.0	8.0	17.5	14.0
12			13.5	11.5	11.0	9.5	14.5	13.5	12.5	8.5	17.5	14.0
13			13.0	11.0	10.0	8.5	16.5	13.5	---	10.0	17.5	12.5
14			13.5	11.0	10.0	8.5	16.0	14.5	13.0	11.0	18.0	12.5
15			14.0	12.0	10.5	8.5	15.5	13.5	14.0	11.0	18.5	14.5
16			14.0	11.5	10.5	8.5	15.0	13.0	---	---	17.0	12.5
17			14.0	12.0	10.5	9.0	14.0	13.0	---	---	16.5	11.5
18			14.5	13.5	11.0	9.0	14.0	13.0	---	---	16.5	12.0
19			14.0	13.5	11.0	9.5	13.5	11.5	---	---	19.0	14.0
20			13.5	12.0	11.5	10.0	---	---	---	---	19.0	14.0
21			12.5	10.5	13.0	11.0	---	---	---	---	18.5	14.5
22			11.0	9.5	13.0	11.5	12.5	10.0	---	---	16.0	14.0
23			11.5	10.0	12.0	10.0	12.5	9.5	---	---	18.5	13.0
24			12.0	10.0	12.0	10.5	12.5	9.5	---	---	---	---
25			12.0	10.0	12.5	10.5	13.0	9.5	---	---	---	---
26			12.5	10.5	12.5	11.5	13.0	10.0	---	---	18.0	13.0
27			13.0	12.0	13.0	11.0	13.0	10.5	---	---	19.0	13.0
28			12.5	11.0	12.0	10.0	13.0	11.5	---	---	18.0	12.5
29			11.5	10.0	11.5	10.0	14.0	12.0	---	---	18.5	13.0
30			10.5	9.5	11.0	9.0	14.0	12.0	---	---	19.0	13.5
31			---	---	12.0	9.0	14.0	10.5	---	---	17.5	12.0
MONTH			15.5	9.5	13.5	8.5	16.5	9.0	15.0	8.0	19.0	11.5

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	15.5	13.0	21.0	18.0	23.5	18.0	---	---	---	---	24.5	19.0
2	18.0	12.0	22.5	18.0	23.5	19.0	---	---	---	---	25.0	19.5
3	19.0	13.5	23.5	19.5	23.5	18.5	26.0	---	---	---	25.0	20.0
4	19.5	14.0	24.5	20.5	23.0	18.5	25.5	21.0	---	---	25.0	20.0
5	21.0	16.0	25.0	21.5	23.0	18.5	25.5	20.5	---	---	25.0	21.0
6	21.5	16.0	24.0	21.5	23.0	18.5	25.5	20.5	---	---	26.5	22.0
7	21.0	16.0	24.0	21.5	---	---	---	---	---	---	25.0	22.5
8	20.0	14.5	24.0	20.0	---	---	---	---	---	---	25.0	22.5
9	17.0	16.0	21.5	19.5	---	---	---	---	---	---	24.0	21.5
10	22.0	16.0	20.5	18.0	---	---	---	---	---	---	24.0	21.0
11	20.0	14.5	19.0	16.5	---	---	---	---	---	---	24.5	21.0
12	19.5	12.5	---	---	23.5	19.0	---	---	---	---	24.5	21.0
13	19.5	13.0	---	---	23.5	19.0	---	---	---	---	24.5	21.0
14	19.0	13.0	---	---	24.0	18.5	25.5	---	---	---	24.0	21.0
15	20.5	13.5	---	---	24.5	19.5	25.5	20.5	---	---	---	---
16	21.0	14.5	---	---	25.0	20.0	26.5	21.0	---	---	24.5	20.5
17	21.0	14.5	---	---	25.5	20.0	27.0	22.5	---	---	25.5	21.5
18	21.0	14.5	---	---	26.0	20.5	26.5	22.5	25.0	---	26.0	22.0
19	---	---	24.0	---	25.5	20.5	26.5	22.0	25.0	20.5	24.0	21.0
20	---	---	24.5	20.5	25.0	20.0	26.5	21.0	25.0	20.5	23.5	19.5
21	---	---	24.5	21.5	25.0	19.5	25.0	22.0	25.0	21.0	23.5	19.5
22	---	---	23.5	20.5	25.0	20.0	---	---	25.0	20.5	23.0	19.5
23	---	---	22.0	18.0	24.5	20.5	---	---	---	---	22.5	18.5
24	---	---	19.5	16.5	24.5	19.5	---	---	---	---	22.5	18.0
25	21.5	16.5	20.5	16.0	---	---	---	---	26.5	21.0	23.0	18.5
26	22.5	17.5	21.0	17.5	---	---	---	---	26.5	21.0	23.5	19.0
27	22.5	18.5	22.5	18.0	---	---	---	---	25.0	20.5	23.5	19.5
28	20.5	19.0	22.0	18.0	---	---	---	---	24.5	19.5	23.5	20.0
29	19.5	18.0	23.5	18.0	---	---	---	---	24.5	19.5	24.0	20.0
30	20.0	17.5	23.5	18.5	---	---	---	---	24.5	18.5	24.0	20.0
31	---	---	23.5	18.5	---	---	---	---	24.5	19.0	---	---
MONTH	22.5	12.0	25.0	16.0	26.0	18.0	27.0	20.5	26.5	18.5	26.5	18.0
YEAR	27.0	8.0										

BEST DOCUMENT AVAILABLE

09421000 LAKE MEAD AT HOOVER DAM, AZ-NV

LOCATION.--Lat 36°00'58", long 114°44'13", in NE¼SW¼ sec.3, T.30 N., R.23 W., Gila and Salt River meridian, Mohave-Clark Counties, Hydrologic Unit 15010005, in center of Hoover Dam on Colorado River.

DRAINAGE AREA.--171,700 mi^2 (444,700 km^2), approximately, including 3,959 mi^2 (10,254 km^2) in Great Divide basin in southern Wyoming, which is noncontributing (previously considered part of the Missouri River basin).

RESERVOIR-CONTENTS RECORDS

PERIOD OF RECORD.--Contents: February 1935 to current year. Evaporation: March 1952 to current year. Diversions (monthly totals only): to Boulder City area, since October 1935; to Henderson and Las Vegas areas, since April 1942; combined diversions since October 1968. Prior to 1946 published as "at Boulder Dam."

REVISED RECORDS.--WSP 899: 1935-39.

GAGE.--Water-stage indicator read once daily at midnight, with supplementary water-stage recorder. Datum of gage is 0.00 ft (0.000 m) to Local Powerhouse datum and is 0.40 ft (0.122 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Reservoir is formed by concrete arch-gravity dam; storage began Feb. 1, 1935; dam completed Mar. 1, 1936. Total capacity (based on 1963-64 resurvey by Coast and Geodetic Survey; capacity table put into use Apr. 1, 1967), 29,755,000 acre-ft (36,700 hm^3), consisting of the following: Dead storage, 2,378,000 acre-ft (2,930 hm^3) below gage height 895.0 ft (272.80 m)--gate sills in outlet towers; usable contents, 26,159,000 acre-ft (32,300 hm^3) between gage heights 895.0 ft (272.80 m) and 1,221.4 ft (372.28 m)--top of automatic spillway gates in raised position; and uncontrolled storage, 1,218,000 acre-ft (1,500 hm^3) between gage heights 1,221.4 ft (372.28 m) and 1,229.0 ft (374.60 m)--maximum water surface. Reservoir is used to store water for flood control, irrigation, municipal water supply, and power development. Figures given herein represent usable contents.

DIVERSIONS FROM LAKE MEAD.--Diversions to Boulder City area at dam; diversions to Henderson and Las Vegas areas from intakes 6 mi (10 km) upstream. Diversions measured by Venturi meters. Water used for municipal and industrial purposes.

COOPERATION.--Records of gage height and contents furnished by Bureau of Reclamation. Records of diversions from Lake Mead furnished by Bureau of Reclamation and Colorado River Commission of Nevada.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 27,790,000 acre-ft (34,300 hm^3) July 29, 30, 1941, gage height, 1,220.45 ft (371.993 m); minimum (since 1940), 10,695,000 acre-ft (1,200 hm^3) Apr. 26, 1956, gage height, 1,083.21 ft (330.162 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 23,653,000 acre-ft (29,200 hm^3) Sept. 21, gage height, 1,205.03 ft (367.293 m); minimum, 22,212,000 acre-ft (27,400 hm^3) Oct. 25, gage height, 1,195.09 ft (364.263 m).

09421000 LAKE MEAD AT HOOVER DAM, AZ-NV--Continued

RESERVOIR STORAGE, IN THOUSANDS OF ACRE FEET, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22245	22228	22446	22629	22789	23538	23301	23197	22925	23266	23597	23589
2	22238	22230	22461	22609	22812	23557	23292	23191	22932	23307	23617	23572
3	22230	22247	22471	22592	22825	23566	23282	23200	22918	23336	23631	23566
4	22233	22273	22477	22576	22841	23569	23272	23210	22918	23374	23628	23548
5	22242	22282	22491	22583	22832	23563	23280	23197	22928	23408	23622	23533
6	22250	22283	22493	22593	22834	23564	23304	23169	22936	23436	23616	23554
7	22262	22290	22494	22595	22841	23563	23288	23156	22960	23460	23607	23569
8	22252	22306	22509	22587	22852	23573	23261	23139	22980	23473	23601	23569
9	22245	22320	22524	22593	22861	23579	23253	23112	22979	23492	23613	23583
10	22245	22336	22517	22602	22880	23563	23240	23117	22974	23496	23626	23582
11	22246	22360	22513	22620	22903	23550	23231	23130	22981	23496	23629	23594
12	22255	22367	22526	22628	22916	23535	23236	23115	22990	23521	23622	23595
13	22272	22354	22543	22646	22928	23517	23244	23090	22999	23550	23619	23615
14	22289	22351	22550	22651	22952	23498	23231	23063	23025	23558	23610	23635
15	22299	22357	22564	22652	22973	23493	23231	23040	23060	23566	23606	23635
16	22292	22366	22577	22649	23009	23490	23226	23021	23066	23563	23631	23628
17	22279	22380	22582	22639	23041	23476	23217	23012	23063	23566	23641	23625
18	22266	22394	22582	22626	23061	23455	23212	23018	23072	23563	23629	23622
19	22250	22384	22576	22635	23092	23439	23232	23000	23095	23579	23617	23616
20	22259	22371	22582	22653	23153	23418	23251	23002	23102	23601	23616	23631
21	22266	22367	22587	22661	23206	23421	23235	23010	23118	23595	23606	23653
22	22253	22393	22593	22666	23258	23423	23213	23003	23133	23579	23597	23647
23	22223	22410	22599	22689	23308	23432	23198	22964	23107	23578	23585	23641
24	22218	22427	22605	22702	23362	23407	23190	22957	23092	23579	23586	23638
25	22212	22431	22613	22711	23410	23392	23190	22958	23112	23573	23583	23634
26	22218	22444	22603	22720	23440	23379	23207	22961	23123	23586	23585	23635
27	22255	22441	22592	22725	23476	23360	23226	22938	23130	23597	23589	23643
28	22233	22438	22587	22720	23496	23349	23216	22920	23168	23598	23581	23651
29	22218	22437	22603	22725	23520	23357	23206	22913	23217	23597	23575	23647
30	22215	22433	22619	22746	---	23362	23198	22899	23247	23595	23581	23637
31	22216	---	22623	22770	---	23335	---	22906	---	23597	23586	---
MAX	22299	22444	22623	22770	23520	23579	23304	23210	23247	23601	23641	23653
MIN	22212	22228	22446	22576	22789	23335	23190	22899	22918	23266	23575	23533
(*)	1195.12	1196.64	1197.97	1198.99	1204.13	1202.87	1201.94	1199.93	1202.27	1204.65	1204.58	1204.92
(†)	-26000	+217000	+190000	+147000	+750000	-185000	-137000	-292000	+341000	+350000	-11000	+51000
(‡)	11940	9200	7820	6980	6270	6080	9760	11770	12840	14160	14570	12410
(**)	9.3	8.1	4.5	5.1	3.5	4.1	4.0	6.7	7.2	9.4	9.1	6.2
(‡‡)	110100	96200	53700	61100	42300	49600	48800	81200	87000	115500	112200	76400

CAL YR 1979 MAX 23324 MIN 21976 † +663000 ‡‡ 114200 ** 76.5 ‡‡ 911700
WTR YR 1980 MAX 23653 MIN 22212 † +1395000 ‡‡ 123800 ** 77.2 ‡‡ 934100

* Gage height, in feet, at end of month.
† Change in contents, in acre-feet.
‡ Diversions, in acre-feet.
** Gross evaporation, in inches, from Lake Mead.
‡‡ Gross evaporation, in acre-feet, from Lake Mead.

NOTE.--Figures of gross evaporation are based on data obtained on Lake Mead by the U.S. Water and Power Resources Service (formerly U.S. Bureau of Reclamation) and at Las Vegas by National Weather Service, and are computed by the Geological Survey. Only the mass-transfer method described in Geological Survey Professional Paper 298 is used. "Gross" denoted the total evaporation from the lake without deduction for precipitation on the lake surface or for natural losses that would have occurred in the area now occupied by the lake. Starting February 1976 coefficient changed to 0.00179.

09421000 LAKE MEAD AT HOOVER DAM, AZ-NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1940 to September 1962, October 1963 to current year.
CHEMICAL ANALYSES, SPECIFIC CONDUCTANCES, AND WATER TEMPERATURES: October 1940 to September 1962 and October 1963 to current year, monthly.

COOPERATION.--Samples and field data collected by U.S. Bureau of Reclamation. Non-nutrient samples analysed by Metropolitan Water District of Southern California.

EXTREMES MEASURED FOR PERIOD OF RECORD (at 5-ft depth to September 1962; at water surface from October 1963 to current year).--
SPECIFIC CONDUCTANCES: Maximum, 1,250 micromhos Oct. 4, Nov. 1, 1965; minimum, 688 micromhos Nov. 1, 1957.
WATER TEMPERATURES: Maximum, 31.5°C Aug. 30, 1967; minimum, 11.0°C Jan. 28, 1969.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLING DEPTH (FT)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO
OCT											
10...	1000	.0	1160	7.7	25.5	7.9	330	81	32	110	2.6
10...	1002	5.0	1120	--	25.5	--	--	--	--	--	--
10...	1005	10.0	1120	8.2	25.5	7.9	340	--	--	--	--
10...	1006	15.0	1120	--	25.5	--	--	--	--	--	--
10...	1008	20.0	1120	--	25.5	--	--	--	--	--	--
10...	1010	25.0	1120	8.5	25.5	7.9	340	--	--	--	--
10...	1012	30.0	1120	--	25.5	--	--	--	--	--	--
10...	1014	40.0	1120	--	25.5	--	--	--	--	--	--
10...	1015	50.0	1100	--	25.5	--	--	--	--	--	--
10...	1016	60.0	1060	--	24.5	--	--	--	--	--	--
10...	1018	70.0	1060	--	23.5	--	--	--	--	--	--
10...	1020	75.0	1060	8.0	22.0	2.4	340	86	31	110	2.6
10...	1022	80.0	1060	--	21.5	--	--	--	--	--	--
10...	1024	90.0	1080	--	21.0	--	--	--	--	--	--
10...	1027	100	1080	--	20.0	--	--	--	--	--	--
10...	1030	125	1080	7.9	19.0	4.2	340	--	--	--	--
10...	1033	150	1080	--	16.5	--	--	--	--	--	--
10...	1035	175	1080	7.9	15.5	6.4	340	--	--	--	--
10...	1037	200	1080	--	14.5	--	--	--	--	--	--
10...	1040	225	1080	8.0	14.0	7.0	340	--	--	--	--
10...	1043	250	1080	--	13.0	--	--	--	--	--	--
10...	1045	275	1080	8.0	12.5	7.2	340	--	--	--	--
10...	1050	285	1080	8.0	12.0	7.2	330	84	30	100	2.4
10...	1053	300	1080	--	12.0	--	--	--	--	--	--
10...	1055	325	1100	8.0	11.5	7.0	340	--	--	--	--
10...	1057	350	1100	--	11.5	--	--	--	--	--	--
10...	1100	375	1100	8.0	11.5	6.8	330	--	--	--	--
10...	1105	400	1100	--	11.5	--	--	--	--	--	--
10...	1110	425	1100	7.9	11.5	6.2	340	--	--	--	--
10...	1115	450	1100	--	11.5	--	--	--	--	--	--
10...	1120	475	1100	7.9	11.0	6.1	330	83	30	100	2.4
10...	1130	480	1100	7.9	11.0	5.1	340	--	--	--	--
NOV											
27...	1020	.0	1140	7.3	16.5	7.5	340	83	32	110	2.6
27...	1025	5.0	1140	--	16.5	--	--	--	--	--	--
27...	1030	10.0	1140	8.2	17.0	7.8	340	--	--	--	--
27...	1033	15.0	1140	--	17.0	--	--	--	--	--	--
27...	1036	20.0	1140	--	17.0	--	--	--	--	--	--
27...	1040	25.0	1140	8.2	17.0	7.4	340	--	--	--	--
27...	1042	30.0	1140	--	17.0	--	--	--	--	--	--
27...	1044	40.0	1140	--	17.0	--	--	--	--	--	--
27...	1045	50.0	1140	--	17.0	--	--	--	--	--	--
27...	1046	60.0	1140	--	17.0	--	--	--	--	--	--
27...	1048	70.0	1140	--	17.0	--	--	--	--	--	--
27...	1050	75.0	1140	8.3	17.0	7.5	340	--	--	--	--
27...	1052	80.0	1140	--	17.0	--	--	--	--	--	--
27...	1055	90.0	1140	--	17.0	--	--	--	--	--	--
27...	1058	100	1140	--	17.0	--	--	--	--	--	--
27...	1100	125	1140	8.2	17.0	7.1	340	--	--	--	--
27...	1105	150	1100	--	16.5	--	--	--	--	--	--
27...	1110	175	1060	8.1	16.5	5.6	340	84	32	100	2.4
27...	1115	200	1060	--	15.5	--	--	--	--	--	--
27...	1120	225	1060	8.0	14.5	6.6	340	--	--	--	--
27...	1125	250	1060	--	13.5	--	--	--	--	--	--
27...	1130	275	1060	8.0	13.0	7.0	340	--	--	--	--
27...	1140	286	1070	8.0	13.0	6.7	340	83	31	100	2.4
27...	1145	300	1080	--	12.5	--	--	--	--	--	--
27...	1150	325	1080	8.0	12.0	6.7	330	--	--	--	--
27...	1155	350	1080	--	12.0	--	--	--	--	--	--
27...	1200	375	1080	8.0	12.0	6.5	340	--	--	--	--
27...	1205	400	1090	--	11.5	--	--	--	--	--	--
27...	1210	425	1090	7.9	11.5	5.9	340	--	--	--	--
27...	1215	450	1100	--	11.5	--	--	--	--	--	--
27...	1220	475	1100	7.8	11.5	4.8	330	83	31	100	2.4
27...	1230	482	1100	7.8	11.5	4.6	340	--	--	--	--

09421000 LAKE MEAD AT HOOVER DAM, AZ-NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SAMPLING DEPTH (FT)	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)
OCT												
10...	.0	5.4	130	0	100	320	100	.3	9.1	722	--	.08
10...	5.0	--	--	--	--	--	--	--	--	--	--	--
10...	10.0	--	130	0	110	--	99	--	--	--	--	--
10...	15.0	--	--	--	--	--	--	--	--	--	--	--
10...	20.0	--	--	--	--	--	--	--	--	--	--	--
10...	25.0	--	130	0	100	--	99	--	--	--	--	--
10...	30.0	--	--	--	--	--	--	--	--	--	--	--
10...	40.0	--	--	--	--	--	--	--	--	--	--	--
10...	50.0	--	--	--	--	--	--	--	--	--	--	--
10...	60.0	--	--	--	--	--	--	--	--	--	--	--
10...	70.0	--	--	--	--	--	--	--	--	--	--	--
10...	75.0	5.0	160	0	130	300	93	.3	8.4	713	--	.16
10...	80.0	--	--	--	--	--	--	--	--	--	--	--
10...	90.0	--	--	--	--	--	--	--	--	--	--	--
10...	100	--	--	--	--	--	--	--	--	--	--	--
10...	125	--	150	0	130	--	92	--	--	--	--	--
10...	150	--	--	--	--	--	--	--	--	--	--	--
10...	175	--	160	0	130	--	92	--	--	--	--	--
10...	200	--	--	--	--	--	--	--	--	--	--	--
10...	225	--	160	0	130	--	90	--	--	--	--	--
10...	250	--	--	--	--	--	--	--	--	--	--	--
10...	275	--	160	0	130	--	88	--	--	--	--	--
10...	285	4.8	150	0	130	290	88	.3	10	687	--	.27
10...	300	--	--	--	--	--	--	--	--	--	--	--
10...	325	--	160	0	130	--	87	--	--	--	--	--
10...	350	--	--	--	--	--	--	--	--	--	--	--
10...	375	--	160	0	130	--	86	--	--	--	--	--
10...	400	--	--	--	--	--	--	--	--	--	--	--
10...	425	--	160	0	130	--	87	--	--	--	--	--
10...	450	--	--	--	--	--	--	--	--	--	--	--
10...	475	4.7	160	0	130	280	88	.4	9.1	675	--	.18
10...	480	--	160	0	130	--	88	--	--	--	--	--
NOV												
27...	.0	5.1	150	0	120	310	96	.3	7.9	719	--	.10
27...	5.0	--	--	--	--	--	--	--	--	--	--	--
27...	10.0	--	150	0	120	--	95	--	--	--	.16	--
27...	15.0	--	--	--	--	--	--	--	--	--	--	--
27...	20.0	--	--	--	--	--	--	--	--	--	--	--
27...	25.0	--	150	0	120	--	94	--	--	--	--	--
27...	30.0	--	--	--	--	--	--	--	--	--	--	--
27...	40.0	--	--	--	--	--	--	--	--	--	--	--
27...	50.0	--	--	--	--	--	--	--	--	--	--	--
27...	60.0	--	--	--	--	--	--	--	--	--	--	--
27...	70.0	--	--	--	--	--	--	--	--	--	--	--
27...	75.0	--	150	0	120	--	94	--	--	--	--	--
27...	80.0	--	--	--	--	--	--	--	--	--	--	--
27...	90.0	--	--	--	--	--	--	--	--	--	--	--
27...	100	--	--	--	--	--	--	--	--	--	--	--
27...	125	--	150	0	120	--	94	--	--	--	--	--
27...	150	--	--	--	--	--	--	--	--	--	--	--
27...	175	4.8	160	0	130	300	92	.3	8.1	702	--	.34
27...	200	--	--	--	--	--	--	--	--	--	--	--
27...	225	--	160	0	130	--	89	--	--	--	--	--
27...	250	--	--	--	--	--	--	--	--	--	--	--
27...	275	--	160	0	130	--	89	--	--	--	--	--
27...	286	4.6	160	0	130	290	88	.3	8.4	686	--	.34
27...	300	--	--	--	--	--	--	--	--	--	--	--
27...	325	--	160	0	130	--	87	--	--	--	--	--
27...	350	--	--	--	--	--	--	--	--	--	--	--
27...	375	--	160	0	130	--	87	--	--	--	--	--
27...	400	--	--	--	--	--	--	--	--	--	--	--
27...	425	--	160	0	130	--	87	--	--	--	--	--
27...	450	--	--	--	--	--	--	--	--	--	--	--
27...	475	4.5	160	0	130	[illegible]	87	.3	9.1	675	--	.38
27...	482	--	170	0	140	--	87	--	--	--	--	--

BEST DOCUMENT AVAILABLE

09421000 LAKE MEAD AT HOOVER DAM, AZ-NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SAMPLING DEPTH (FT)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
NOV						
27...	.0	--	--	--	--	--
27...	5.0	--	--	--	--	--
27...	10.0	.010	.030	.42	.62	.000
27...	15.0	--	--	--	--	--
27...	20.0	--	--	--	--	--
27...	25.0	--	--	--	--	--
27...	30.0	--	--	--	--	--
27...	40.0	--	--	--	--	--
27...	50.0	--	--	--	--	--
27...	60.0	--	--	--	--	--
27...	70.0	--	--	--	--	--
27...	75.0	--	--	--	--	--
27...	80.0	--	--	--	--	--
27...	90.0	--	--	--	--	--
27...	100	--	--	--	--	--
27...	125	--	--	--	--	--
27...	150	--	--	--	--	--
27...	175	--	--	--	--	--
27...	200	--	--	--	--	--
27...	225	--	--	--	--	--
27...	250	--	--	--	--	--
27...	275	--	--	--	--	--
27...	286	--	--	--	--	--
27...	300	--	--	--	--	--
27...	325	--	--	--	--	--
27...	350	--	--	--	--	--
27...	375	--	--	--	--	--
27...	400	--	--	--	--	--
27...	425	--	--	--	--	--
27...	450	--	--	--	--	--
27...	475	--	--	--	--	--
27...	442	--	--	--	--	--

09421000 LAKE MEAD AT HOOVER DAM, AZ-NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLING DEPTH (FT)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO
JAN											
02...	0955	.0	1120	7.7	13.5	7.6	340	85	31	110	2.6
02...	1000	5.0	1120	--	14.0	--	--	--	--	--	--
02...	1005	10.0	1130	8.1	14.0	7.5	340	--	--	--	--
02...	1010	15.0	1130	--	14.0	--	--	--	--	--	--
02...	1015	20.0	1130	--	14.0	--	--	--	--	--	--
02...	1020	25.0	1120	8.2	14.0	7.5	340	--	--	--	--
02...	1022	30.0	1120	--	14.0	--	--	--	--	--	--
02...	1024	40.0	1120	--	14.0	--	--	--	--	--	--
02...	1025	50.0	1120	--	14.0	--	--	--	--	--	--
02...	1026	60.0	1120	--	14.0	--	--	--	--	--	--
02...	1028	70.0	1130	--	14.0	--	--	--	--	--	--
02...	1030	75.0	1130	8.2	14.0	7.4	340	--	--	--	--
02...	1033	80.0	1130	--	14.0	--	--	--	--	--	--
02...	1035	90.0	1120	--	14.0	--	--	--	--	--	--
02...	1040	100	1120	--	14.0	--	--	--	--	--	--
02...	1045	125	1130	8.2	14.0	7.6	340	--	--	--	--
02...	1055	150	1120	--	14.0	--	--	--	--	--	--
02...	1105	175	1120	8.3	14.0	6.9	340	85	31	110	2.6
02...	1112	200	1100	--	13.5	--	--	--	--	--	--
02...	1120	225	1090	8.2	13.0	6.2	340	--	--	--	--
02...	1125	250	1070	--	13.0	--	--	--	--	--	--
02...	1130	275	1080	8.2	12.0	6.6	340	--	--	--	--
02...	1145	288	1080	8.2	12.0	6.5	330	84	30	100	2.4
02...	1155	300	1080	--	11.5	--	--	--	--	--	--
02...	1205	325	1080	8.2	11.5	6.2	340	--	--	--	--
02...	1212	350	1080	--	11.5	--	--	--	--	--	--
02...	1220	375	1090	8.1	11.5	6.0	340	--	--	--	--
02...	1225	400	1090	--	11.5	--	--	--	--	--	--
02...	1230	425	1090	8.0	11.5	5.4	340	--	--	--	--
02...	1237	450	1090	--	11.5	--	--	--	--	--	--
02...	1245	475	1090	8.0	11.5	4.2	330	84	30	100	2.4
02...	1300	483	1090	8.1	11.5	4.2	330	--	--	--	--
30...	0900	.0	1120	7.8	13.0	8.2	340	84	31	110	2.6
30...	0905	5.0	1120	--	13.0	--	--	--	--	--	--
30...	0910	10.0	1120	7.9	13.0	8.2	340	--	--	--	--
30...	0913	15.0	1120	--	13.0	--	--	--	--	--	--
30...	0916	20.0	1120	--	13.0	--	--	--	--	--	--
30...	0920	25.0	1120	8.1	13.0	7.8	340	--	--	--	--
30...	0921	30.0	1120	--	13.0	--	--	--	--	--	--
30...	0923	40.0	1120	--	12.5	--	--	--	--	--	--
30...	0925	50.0	1120	--	12.5	--	--	--	--	--	--
30...	0927	60.0	1120	--	12.5	--	--	--	--	--	--
30...	0929	70.0	1120	--	12.5	--	--	--	--	--	--
30...	0930	75.0	1120	8.1	12.5	8.2	340	--	--	--	--
30...	0932	80.0	1120	--	12.5	--	--	--	--	--	--
30...	0935	90.0	1120	--	12.5	--	--	--	--	--	--
30...	0938	100	1120	--	12.5	--	--	--	--	--	--
30...	0940	125	1120	8.1	12.5	8.0	340	--	--	--	--
30...	0945	150	1120	--	12.5	--	--	--	--	--	--
30...	0950	175	1120	8.0	12.5	7.6	340	--	--	--	--
30...	0955	200	1120	--	12.5	--	--	--	--	--	--
30...	1000	225	1100	8.0	12.0	7.5	340	--	--	--	--
30...	1005	250	1100	--	12.0	--	--	--	--	--	--
30...	1010	275	1100	8.0	12.0	6.3	330	--	--	--	--
30...	1020	288	1080	7.9	12.0	6.3	330	84	30	100	2.4
30...	1025	300	1090	--	12.0	--	--	--	--	--	--
30...	1030	325	1090	7.9	12.0	6.4	330	--	--	--	--
30...	1035	350	1090	--	12.0	--	--	--	--	--	--
30...	1040	375	1090	7.9	12.0	6.1	340	--	--	--	--
30...	1050	400	1100	--	12.0	--	--	--	--	--	--
30...	1100	425	1100	7.9	11.5	6.5	340	--	--	--	--
30...	1107	450	1100	--	11.5	--	--	--	--	--	--
30...	1115	475	1100	7.8	11.5	4.0	330	83	30	100	2.4
30...	1130	483	1100	7.8	11.5	4.0	340	--	--	--	--

09421000 LAKE MEAD AT HOOVER DAM, AZ-NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SAMPLING DEPTH (FT)	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)
JAN											
02...	.0	4.8	150	0	120	310	93	.3	8.6	718	.25
02...	5.0	--	--	--	--	--	--	--	--	--	--
02...	10.0	--	150	0	130	--	92	--	--	--	--
02...	15.0	--	--	--	--	--	--	--	--	--	--
02...	20.0	--	--	--	--	--	--	--	--	--	--
02...	25.0	--	150	0	--	--	92	--	--	--	--
02...	30.0	--	--	--	--	--	--	--	--	--	--
02...	40.0	--	--	--	--	--	--	--	--	--	--
02...	50.0	--	--	--	--	--	--	--	--	--	--
02...	60.0	--	--	--	--	--	--	--	--	--	--
02...	70.0	--	--	--	--	--	--	--	--	--	--
02...	75.0	--	150	0	130	--	92	--	--	--	--
02...	80.0	--	--	--	--	--	--	--	--	--	--
02...	90.0	--	--	--	--	--	--	--	--	--	--
02...	100	--	--	--	--	--	--	--	--	--	--
02...	125	--	150	0	130	--	93	--	--	--	--
02...	150	--	--	--	--	--	--	--	--	--	--
02...	175	4.7	150	0	130	300	91	.3	8.7	706	.36
02...	200	--	--	--	--	--	--	--	--	--	--
02...	225	--	150	0	130	--	90	--	--	--	--
02...	250	--	--	--	--	--	--	--	--	--	--
02...	275	--	150	0	130	--	87	--	--	--	--
02...	288	4.4	160	0	130	290	88	.3	8.6	686	.47
02...	300	--	--	--	--	--	--	--	--	--	--
02...	325	--	150	0	130	--	86	--	--	--	--
02...	350	--	--	--	--	--	--	--	--	--	--
02...	375	--	150	0	130	--	93	--	--	--	--
02...	400	--	--	--	--	--	--	--	--	--	--
02...	425	--	150	0	130	--	88	--	--	--	--
02...	450	--	--	--	--	--	--	--	--	--	--
02...	475	4.4	160	0	130	280	87	.3	9.2	676	.45
02...	483	--	150	0	130	--	87	--	--	--	--
30...	.0	4.7	150	0	120	300	91	.3	9.4	706	.32
30...	5.0	--	--	--	--	--	--	--	--	--	--
30...	10.0	--	150	0	120	--	91	--	--	--	--
30...	15.0	--	--	--	--	--	--	--	--	--	--
30...	20.0	--	--	--	--	--	--	--	--	--	--
30...	25.0	--	150	0	120	--	91	--	--	--	--
30...	30.0	--	--	--	--	--	--	--	--	--	--
30...	40.0	--	--	--	--	--	--	--	--	--	--
30...	50.0	--	--	--	--	--	--	--	--	--	--
30...	60.0	--	--	--	--	--	--	--	--	--	--
30...	70.0	--	--	--	--	--	--	--	--	--	--
30...	75.0	--	160	0	130	--	92	--	--	--	--
30...	80.0	--	--	--	--	--	--	--	--	--	--
30...	90.0	--	--	--	--	--	--	--	--	--	--
30...	100	--	--	--	--	--	--	--	--	--	--
30...	125	--	160	0	130	--	91	--	--	--	--
30...	150	--	--	--	--	--	--	--	--	--	--
30...	175	--	160	0	130	--	90	--	--	--	--
30...	200	--	--	--	--	--	--	--	--	--	--
30...	225	--	160	0	130	--	91	--	--	--	--
30...	250	--	--	--	--	--	--	--	--	--	--
30...	275	--	160	0	130	--	88	--	--	--	--
30...	288	4.3	160	0	130	290	88	.3	9.4	687	.38
30...	300	--	--	--	--	--	--	--	--	--	--
30...	325	--	160	0	130	--	87	--	--	--	--
30...	350	--	--	--	--	--	--	--	--	--	--
30...	375	--	160	0	130	--	88	--	--	--	--
30...	400	--	--	--	--	--	--	--	--	--	--
30...	425	--	150	0	120	--	95	--	--	--	--
30...	450	--	--	--	--	--	--	--	--	--	--
30...	475	4.2	160	0	130	280	86	.3	11	675	.41
30...	483	--	160	0	130	--	87	--	--	--	--

09421000 LAKE MEAD AT HOOVER DAM, AZ-NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLING DEPTH (FT)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO
FEB											
27...	1000	10.0	1110	--	14.5	--	--	--	--	--	--
27...	1010	483	1110	--	12.0	--	--	--	--	--	--
28...	0830	.0	1110	8.5	14.5	11.3	340	84	30	110	2.6
28...	0838	5.0	1110	--	14.5	--	--	--	--	--	--
28...	0845	10.0	1110	8.4	14.0	11.0	340	--	--	--	--
28...	0850	15.0	1110	--	14.0	--	--	--	--	--	--
28...	0855	20.0	1120	--	13.5	--	--	--	--	--	--
28...	0900	25.0	1120	8.2	13.5	9.8	340	--	--	--	--
28...	0903	30.0	1120	--	13.5	--	--	--	--	--	--
28...	0906	40.0	1120	--	13.5	--	--	--	--	--	--
28...	0909	50.0	1120	--	13.0	--	--	--	--	--	--
28...	0912	60.0	1120	--	13.0	--	--	--	--	--	--
28...	0914	70.0	1120	--	13.0	--	--	--	--	--	--
28...	0915	75.0	1120	8.2	12.5	8.7	340	--	--	--	--
28...	0919	80.0	1120	--	12.5	--	--	--	--	--	--
28...	0923	90.0	1120	--	12.5	--	--	--	--	--	--
28...	0926	100	1120	--	12.5	--	--	--	--	--	--
28...	0930	125	1120	8.2	12.5	8.7	340	--	--	--	--
28...	0938	150	1120	--	12.5	--	--	--	--	--	--
28...	0945	175	1120	8.2	12.5	8.4	340	--	--	--	--
28...	0953	200	1120	--	12.5	--	--	--	--	--	--
28...	1000	225	1100	8.2	12.5	8.4	340	--	--	--	--
28...	1008	250	1100	--	12.0	--	--	--	--	--	--
28...	1015	275	1100	8.1	12.0	6.5	340	--	--	--	--
28...	1030	293	1100	8.0	12.0	6.2	330	84	30	100	2.4
28...	1038	300	1100	--	12.0	--	--	--	--	--	--
28...	1045	325	1100	7.9	12.0	5.9	340	--	--	--	--
28...	1053	350	1100	--	11.5	--	--	--	--	--	--
28...	1100	375	1100	7.8	11.5	6.0	340	--	--	--	--
28...	1105	400	1100	--	11.5	--	--	--	--	--	--
28...	1110	425	1100	7.6	11.5	5.2	340	--	--	--	--
28...	1115	450	1110	--	11.5	--	--	--	--	--	--
28...	1120	475	1110	7.8	11.5	5.2	340	85	30	100	2.4
28...	1130	483	1110	7.8	11.5	4.6	340	--	--	--	--
MAR											
27...	0840	.0	1080	8.5	15.5	9.8	340	--	--	--	--
27...	0850	5.0	1110	--	15.0	--	--	--	--	--	--
27...	0900	10.0	1110	8.6	14.5	10.0	340	84	32	110	2.6
27...	0905	15.0	1110	--	14.5	--	--	--	--	--	--
27...	0910	20.0	1110	--	14.0	--	--	--	--	--	--
27...	0915	25.0	1110	7.8	14.0	9.6	340	--	--	--	--
27...	0918	30.0	1110	--	14.0	--	--	--	--	--	--
27...	0920	40.0	1110	--	14.0	--	--	--	--	--	--
27...	0922	50.0	1110	--	13.5	--	--	--	--	--	--
27...	0924	60.0	1110	--	13.5	--	--	--	--	--	--
27...	0927	70.0	1110	--	13.5	--	--	--	--	--	--
27...	0930	75.0	1110	7.7	13.5	9.5	340	--	--	--	--
27...	0934	80.0	1110	--	13.5	--	--	--	--	--	--
27...	0937	90.0	1110	--	13.5	--	--	--	--	--	--
27...	0941	100	1120	--	13.5	--	--	--	--	--	--
27...	0945	125	1110	7.7	13.5	9.0	340	--	--	--	--
27...	0953	150	1110	--	13.0	--	--	--	--	--	--
27...	1000	175	1110	7.5	13.0	8.1	340	--	--	--	--
27...	1008	200	1110	--	13.0	--	--	--	--	--	--
27...	1015	225	1110	7.7	12.0	7.5	340	--	--	--	--
27...	1023	250	1110	--	12.0	--	--	--	--	--	--
27...	1030	275	1110	7.[illegible]	12.0	6.8	340	--	--	--	--
27...	1045	293	1110	7.3	12.0	6.0	330	84	30	100	2.4
27...	1053	300	1110	--	12.0	--	--	--	--	--	--
27...	1100	325	1110	7.2	12.0	6.5	340	--	--	--	--
27...	1108	350	1110	--	12.0	--	--	--	--	--	--
27...	1115	375	1110	--	12.0	5.8	340	--	--	--	--
27...	1123	400	1110	--	12.0	--	--	--	--	--	--
27...	1130	425	1110	7.3	12.0	5.8	340	--	--	--	--
27...	1138	450	1110	--	12.0	--	--	--	--	--	--
27...	1145	475	1110	7.2	12.0	5.7	340	85	30	100	2.4
27...	1200	483	1110	7.3	12.0	5.7	340	--	--	--	--

09421000 LAKE MEAD AT HOOVER DAM, AZ-NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SAMPLING DEPTH (FT)	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)
FEB												
27...	10.0	--	--	--	--	--	--	--	--	--	.19	--
27...	483	--	--	--	--	--	--	--	--	--	--	--
28...	.0	4.7	150	0	120	300	90	.2	8.8	702	--	.14
28...	5.0	--	--	--	--	--	--	--	--	--	--	--
28...	10.0	--	150	0	120	--	89	--	--	--	--	--
28...	15.0	--	--	--	--	--	--	--	--	--	--	--
28...	20.0	--	--	--	--	--	--	--	--	--	--	--
28...	25.0	--	150	0	120	--	89	--	--	--	--	--
28...	30.0	--	--	--	--	--	--	--	--	--	--	--
28...	40.0	--	--	--	--	--	--	--	--	--	--	--
28...	50.0	--	--	--	--	--	--	--	--	--	--	--
28...	60.0	--	--	--	--	--	--	--	--	--	--	--
28...	70.0	--	--	--	--	--	--	--	--	--	--	--
28...	75.0	--	160	0	130	--	89	--	--	--	--	--
28...	80.0	--	--	--	--	--	--	--	--	--	--	--
28...	90.0	--	--	--	--	--	--	--	--	--	--	--
28...	100	--	--	--	--	--	--	--	--	--	--	--
28...	125	--	160	0	130	--	92	--	--	--	--	--
28...	150	--	--	--	--	--	--	--	--	--	--	--
28...	175	--	160	0	130	--	91	--	--	--	--	--
28...	200	--	--	--	--	--	--	--	--	--	--	--
28...	225	--	160	0	130	--	91	--	--	--	--	--
28...	250	--	--	--	--	--	--	--	--	--	--	--
28...	275	--	160	0	130	--	85	--	--	--	--	--
28...	293	4.5	160	0	130	290	86	.2	8.7	684	--	.41
28...	300	--	--	--	--	--	--	--	--	--	--	--
28...	325	--	160	0	130	--	87	--	--	--	--	--
28...	350	--	--	--	--	--	--	--	--	--	--	--
28...	375	--	160	0	130	--	87	--	--	--	--	--
28...	400	--	--	--	--	--	--	--	--	--	--	--
28...	425	--	160	0	130	--	86	--	--	--	--	--
28...	450	--	--	--	--	--	--	--	--	--	--	--
28...	475	4.5	160	0	130	290	88	.2	9.2	687	.32	--
28...	483	--	160	0	130	--	86	--	--	--	--	--
MAR												
27...	.0	--	160	0	130	--	92	--	--	--	--	--
27...	5.0	--	--	--	--	--	--	--	--	--	--	--
27...	10.0	4.7	160	0	130	300	92	.3	9.5	713	--	.32
27...	15.0	--	--	--	--	--	--	--	--	--	--	--
27...	20.0	--	--	--	--	--	--	--	--	--	--	--
27...	25.0	--	160	0	130	--	93	--	--	--	--	--
27...	30.0	--	--	--	--	--	--	--	--	--	--	--
27...	40.0	--	--	--	--	--	--	--	--	--	--	--
27...	50.0	--	--	--	--	--	--	--	--	--	--	--
27...	60.0	--	--	--	--	--	--	--	--	--	--	--
27...	70.0	--	--	--	--	--	--	--	--	--	--	--
27...	75.0	--	160	0	130	--	93	--	--	--	--	--
27...	80.0	--	--	--	--	--	--	--	--	--	--	--
27...	90.0	--	--	--	--	--	--	--	--	--	--	--
27...	100	--	--	--	--	--	--	--	--	--	--	--
27...	125	--	160	0	130	--	93	--	--	--	--	--
27...	150	--	--	--	--	--	--	--	--	--	--	--
27...	175	--	160	0	130	--	91	--	--	--	--	--
27...	200	--	--	--	--	--	--	--	--	--	--	--
27...	225	--	160	0	130	--	91	--	--	--	--	--
27...	250	--	--	--	--	--	--	--	--	--	--	--
27...	275	--	160	0	130	--	90	--	--	--	--	--
27...	293	4.5	160	0	130	290	89	.3	11	689	--	.38
27...	300	--	--	--	--	--	--	--	--	--	--	--
27...	325	--	170	0	140	--	89	--	--	--	--	--
27...	350	--	--	--	--	--	--	--	--	--	--	--
27...	375	--	160	0	130	--	89	--	--	--	--	--
27...	400	--	--	--	--	--	--	--	--	--	--	--
27...	425	--	170	0	140	--	88	--	--	--	--	--
27...	450	--	--	--	--	--	--	--	--	--	--	--
27...	475	4.5	160	0	140	290	90	.3	10	690	--	.41
27...	483	--	160	0	130	--	89	--	--	--	--	--

09421000 LAKE MEAD AT HOOVER DAM, AZ-NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SAMPLING DEPTH (FT)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS P)
FEB												
27...	10.0	.010	.20	.070	.030	.68	.47	.95	.70	.000	.000	.010
27...	483	--	.34	--	.060	--	.40	--	.80	--	.020	.020
28...	.0	--	--	--	--	--	--	--	--	--	--	--
28...	5.0	--	--	--	--	--	--	--	--	--	--	--
28...	10.0	--	--	--	--	--	--	--	--	--	--	--
28...	15.0	--	--	--	--	--	--	--	--	--	--	--
28...	20.0	--	--	--	--	--	--	--	--	--	--	--
28...	25.0	--	--	--	--	--	--	--	--	--	--	--
28...	30.0	--	--	--	--	--	--	--	--	--	--	--
28...	40.0	--	--	--	--	--	--	--	--	--	--	--
28...	50.0	--	--	--	--	--	--	--	--	--	--	--
28...	60.0	--	--	--	--	--	--	--	--	--	--	--
28...	70.0	--	--	--	--	--	--	--	--	--	--	--
28...	75.0	--	--	--	--	--	--	--	--	--	--	--
28...	80.0	--	--	--	--	--	--	--	--	--	--	--
28...	90.0	--	--	--	--	--	--	--	--	--	--	--
28...	100	--	--	--	--	--	--	--	--	--	--	--
28...	125	--	--	--	--	--	--	--	--	--	--	--
28...	150	--	--	--	--	--	--	--	--	--	--	--
28...	175	--	--	--	--	--	--	--	--	--	--	--
28...	200	--	--	--	--	--	--	--	--	--	--	--
28...	225	--	--	--	--	--	--	--	--	--	--	--
28...	250	--	--	--	--	--	--	--	--	--	--	--
28...	275	--	--	--	--	--	--	--	--	--	--	--
28...	293	--	--	--	--	--	--	--	--	--	--	--
28...	300	--	--	--	--	--	--	--	--	--	--	--
28...	325	--	--	--	--	--	--	--	--	--	--	--
28...	350	--	--	--	--	--	--	--	--	--	--	--
28...	375	--	--	--	--	--	--	--	--	--	--	--
28...	400	--	--	--	--	--	--	--	--	--	--	--
28...	425	--	--	--	--	--	--	--	--	--	--	--
28...	450	--	--	--	--	--	--	--	--	--	--	--
28...	475	--	--	--	--	--	--	--	--	--	--	--
28...	483	--	--	--	--	--	--	--	--	--	--	--

09421000 LAKE MEAD AT HOOVER DAM, AZ-NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLING DEPTH (FT)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO
MAY											
01...	0945	.0	1110	8.3	18.0	9.8	340	--	--	--	--
01...	0953	5.0	1130	--	17.0	--	--	--	--	--	--
01...	1000	10.0	1130	8.2	17.0	9.8	340	85	31	110	2.6
01...	1004	15.0	1120	--	16.5	--	--	--	--	--	--
01...	1008	20.0	1120	--	16.5	--	--	--	--	--	--
01...	1010	25.0	1120	8.1	16.0	9.8	340	--	--	--	--
01...	1012	30.0	1120	--	16.0	--	--	--	--	--	--
01...	1014	40.0	1120	--	16.5	--	--	--	--	--	--
01...	1015	50.0	1120	--	15.5	--	--	--	--	--	--
01...	1017	60.0	1120	--	15.5	--	--	--	--	--	--
01...	1019	70.0	1120	--	15.5	--	--	--	--	--	--
01...	1020	75.0	1120	8.1	15.0	9.4	340	--	--	--	--
01...	1023	80.0	1120	--	15.0	--	--	--	--	--	--
01...	1025	90.0	1120	--	14.5	--	--	--	--	--	--
01...	1027	100	1120	--	14.5	--	--	--	--	--	--
01...	1030	125	1120	8.0	13.5	8.8	340	--	--	--	--
01...	1035	150	1120	--	13.5	--	--	--	--	--	--
01...	1040	175	1120	7.7	13.0	8.2	340	--	--	--	--
01...	1045	200	1120	--	13.0	--	--	--	--	--	--
01...	1050	225	1110	7.8	13.0	7.3	340	--	--	--	--
01...	1055	250	1100	--	12.0	--	--	--	--	--	--
01...	1100	275	1100	--	12.0	7.3	340	85	30	110	2.6
01...	1110	292	1110	7.7	12.0	6.6	340	--	--	--	--
01...	1115	300	1100	--	12.0	--	--	--	--	--	--
01...	1120	325	1100	7.7	12.0	6.4	340	--	--	--	--
01...	1125	350	1100	--	12.0	--	--	--	--	--	--
01...	1130	375	1100	7.8	12.0	5.8	340	--	--	--	--
01...	1135	400	1100	--	12.0	--	--	--	--	--	--
01...	1140	425	1100	7.7	12.0	5.8	330	85	30	100	2.4
01...	1150	450	1100	--	12.0	--	--	--	--	--	--
01...	1200	475	1100	7.8	12.0	5.4	340	--	--	--	--
01...	1215	484	1100	7.8	12.0	5.4	340	--	--	--	--
29...	0905	.0	1120	8.5	19.0	9.5	340	83	32	110	2.6
29...	0907	5.0	1130	--	19.0	--	--	--	--	--	--
29...	0910	10.0	1130	8.6	19.0	9.5	340	--	--	--	--
29...	0912	15.0	1130	--	19.0	--	--	--	--	--	--
29...	0913	20.0	1130	--	18.5	--	--	--	--	--	--
29...	0915	25.0	1130	8.6	18.5	9.5	340	--	--	--	--
29...	0916	40.0	1130	--	18.5	--	--	--	--	--	--
29...	0917	50.0	1120	--	18.0	--	--	--	--	--	--
29...	0918	60.0	1110	--	17.5	--	--	--	--	--	--
29...	0919	70.0	1110	--	17.0	--	--	--	--	--	--
29...	0920	75.0	1110	8.4	16.5	8.6	340	--	--	--	--
29...	0922	80.0	1120	--	16.0	--	--	--	--	--	--
29...	0923	90.0	1120	--	16.0	--	--	--	--	--	--
29...	0924	100	1120	--	15.0	--	--	--	--	--	--
29...	0925	125	1100	8.4	14.5	8.3	350	--	--	--	--
29...	0928	150	1090	--	14.0	--	--	--	--	--	--
29...	0930	175	1090	8.2	14.0	7.8	340	--	--	--	--
29...	0933	200	1100	--	13.5	--	--	--	--	--	--
29...	0935	225	1100	8.1	13.0	7.3	340	--	--	--	--
29...	0938	250	1100	--	13.0	--	--	--	--	--	--
29...	0940	275	1100	8.0	13.0	6.8	330	--	--	--	--
29...	0945	292	1100	8.0	12.5	7.0	340	85	31	100	2.4
29...	0948	300	1100	--	12.5	--	--	--	--	--	--
29...	0950	325	1100	8.0	12.0	6.6	340	--	--	--	--
29...	0953	350	1100	--	12.0	--	--	--	--	--	--
29...	0955	375	1100	8.0	12.0	6.2	340	--	--	--	--
29...	0958	400	1100	--	12.0	--	--	--	--	--	--
29...	1000	425	1100	8.0	12.0	6.0	340	--	--	--	--
29...	1008	450	1100	--	12.0	--	--	--	--	--	--
29...	1015	475	1110	8.0	12.0	5.7	340	85	31	100	2.4
29...	1030	484	1110	8.0	12.0	5.5	340	--	--	--	--

BEST DOCUMENT AVAILABLE

09421000 LAKE MEAD AT HOOVER DAM, AZ-NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SAMPLING DEPTH (FT)	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)
MAY												
01...	.0	--	160	0	130	--	93	--	--	--	--	--
01...	5.0	--	--	--	--	--	--	--	--	--	--	--
01...	10.0	4.7	160	0	130	310	93	.3	8.2	722	--	--
01...	15.0	--	--	--	--	--	--	--	--	--	--	.20
01...	20.0	--	--	--	--	--	--	--	--	--	--	--
01...	25.0	--	150	0	130	--	93	--	--	--	--	--
01...	30.0	--	--	--	--	--	--	--	--	--	--	--
01...	40.0	--	--	--	--	--	--	--	--	--	--	--
01...	50.0	--	--	--	--	--	--	--	--	--	--	--
01...	60.0	--	--	--	--	--	--	--	--	--	--	--
01...	70.0	--	--	--	--	--	--	--	--	--	--	--
01...	75.0	--	150	0	130	--	94	--	--	--	--	--
01...	80.0	--	--	--	--	--	--	--	--	--	--	--
01...	90.0	--	--	--	--	--	--	--	--	--	--	--
01...	100	--	--	--	--	--	--	--	--	--	--	--
01...	125	--	150	0	130	--	93	--	--	--	--	--
01...	150	--	--	--	--	--	--	--	--	--	--	--
01...	175	--	160	0	130	--	92	--	--	--	--	--
01...	200	--	--	--	--	--	--	--	--	--	--	--
01...	225	--	160	0	130	--	92	--	--	--	--	--
01...	250	--	--	--	--	--	--	--	--	--	--	--
01...	275	4.6	160	0	130	300	90	.3	8.5	709	--	--
01...	292	--	160	0	130	--	90	--	--	--	--	.20
01...	300	--	--	--	--	--	--	--	--	--	--	--
01...	325	--	160	0	130	--	90	--	--	--	--	--
01...	350	--	--	--	--	--	--	--	--	--	--	--
01...	375	--	160	0	130	--	89	--	--	--	--	--
01...	400	--	--	--	--	--	--	--	--	--	--	--
01...	425	4.5	160	0	130	290	89	.3	9.3	688	--	--
01...	450	--	--	--	--	--	--	--	--	--	--	.34
01...	475	--	160	0	130	--	89	--	--	--	--	--
01...	482	--	160	0	130	--	89	--	--	--	--	--
29...	.0	4.5	150	0	120	300	98	.3	8.7	711	--	--
29...	5.0	--	--	--	--	--	--	--	--	--	--	.16
29...	10.0	--	150	0	120	--	98	--	--	--	--	--
29...	15.0	--	--	--	--	--	--	--	--	--	--	--
29...	20.0	--	--	--	--	--	--	--	--	--	--	--
29...	25.0	--	150	0	120	--	98	--	--	--	--	--
29...	40.0	--	--	--	--	--	--	--	--	--	--	--
29...	50.0	--	--	--	--	--	--	--	--	--	--	--
29...	60.0	--	--	--	--	--	--	--	--	--	--	--
29...	70.0	--	--	--	--	--	--	--	--	--	--	--
29...	75.0	--	160	0	130	--	98	--	--	--	.14	--
29...	80.0	--	--	--	--	--	--	--	--	--	--	--
29...	90.0	--	--	--	--	--	--	--	--	--	--	--
29...	100	--	--	--	--	--	--	--	--	--	--	--
29...	125	--	160	0	130	--	97	--	--	--	--	--
29...	150	--	--	--	--	--	--	--	--	--	--	--
29...	175	--	160	0	130	--	96	--	--	--	--	--
29...	200	--	--	--	--	--	--	--	--	--	--	--
29...	225	--	160	0	130	--	94	--	--	--	--	--
29...	250	--	--	--	--	--	--	--	--	--	--	--
29...	275	--	160	0	130	--	93	--	--	--	--	--
29...	292	4.4	160	0	130	290	93	.3	9.2	693	--	.25
29...	300	--	--	--	--	--	--	--	--	--	--	--
29...	325	--	160	0	130	--	93	--	--	--	--	--
29...	350	--	--	--	--	--	--	--	--	--	--	--
29...	375	--	160	0	130	--	93	--	--	--	--	--
29...	400	--	--	--	--	--	--	--	--	--	--	--
29...	425	--	160	0	130	--	93	--	--	--	--	--
29...	450	--	--	--	--	--	--	--	--	--	--	--
29...	475	4.4	160	0	130	300	93	.3	9.3	703	--	.27
29...	484	--	160	0	130	--	92	--	--	--	.36	--

09421000 LAKE MEAD AT HOOVER DAM, AZ-NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SAMPLING DEPTH (FT)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
MAY						
29...	.0	--	--	--	--	--
29...	5.0	--	--	--	--	--
29...	10.0	--	--	--	--	--
29...	15.0	--	--	--	--	--
29...	20.0	--	--	--	--	--
29...	25.0	--	--	--	--	--
29...	40.0	--	--	--	--	--
29...	50.0	--	--	--	--	--
29...	60.0	--	--	--	--	--
29...	70.0	--	--	--	--	--
29...	75.0	.010	.030	.53	.71	.010
29...	80.0	--	--	--	--	--
29...	90.0	--	--	--	--	--
29...	100	--	--	--	--	--
29...	125	--	--	--	--	--
29...	150	--	--	--	--	--
29...	175	--	--	--	--	--
29...	200	--	--	--	--	--
29...	225	--	--	--	--	--
29...	250	--	--	--	--	--
29...	275	--	--	--	--	--
29...	282	--	--	--	--	--
29...	300	--	--	--	--	--
29...	325	--	--	--	--	--
29...	350	--	--	--	--	--
29...	375	--	--	--	--	--
29...	400	--	--	--	--	--
29...	425	--	--	--	--	--
29...	450	--	--	--	--	--
29...	475	--	--	--	--	--
29...	484	.010	.030	.40	.88	.050

BEST DOCUMENT AVAILABLE

09421000 LAKE MEAD AT HOOVER DAM, AZ-NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLING DEPTH (FT)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO
JUN											
26...	0840	.0	1090	8.2	24.5	8.9	340	--	--	--	--
26...	0848	5.0	1150	--	24.5	--	--	--	--	--	--
26...	0855	10.0	1120	8.4	23.0	9.4	340	83	31	110	2.6
26...	0900	15.0	1120	--	22.0	--	--	--	--	--	--
26...	0905	20.0	1120	--	22.0	--	--	--	--	--	--
26...	0910	25.0	1120	8.3	22.0	9.0	340	--	--	--	--
26...	0913	30.0	1120	--	22.0	--	--	--	--	--	--
26...	0915	40.0	1120	--	21.5	--	--	--	--	--	--
26...	0917	50.0	1120	--	21.5	--	--	--	--	--	--
26...	0919	60.0	1100	--	20.0	--	--	--	--	--	--
26...	0921	70.0	1100	--	18.5	--	--	--	--	--	--
26...	0925	75.0	1110	8.2	18.0	8.0	340	--	--	--	--
26...	0929	80.0	1100	--	17.0	--	--	--	--	--	--
26...	0933	90.0	1120	--	16.5	--	--	--	--	--	--
26...	0937	100	1120	--	16.0	--	--	--	--	--	--
26...	0940	125	1110	7.9	15.5	7.4	340	--	--	--	--
26...	0948	150	1110	--	14.5	--	--	--	--	--	--
26...	0955	175	1100	8.0	14.0	7.8	340	--	--	--	--
26...	1002	200	1100	--	13.5	--	--	--	--	--	--
26...	1010	225	1100	8.0	13.0	7.6	340	--	--	--	--
26...	1018	250	1100	--	13.0	--	--	--	--	--	--
26...	1025	275	1100	8.2	13.0	8.0	340	85	31	100	2.4
26...	1040	291	1100	7.9	13.0	7.2	340	--	--	--	--
26...	1048	300	1100	--	13.0	--	--	--	--	--	--
26...	1055	325	1100	7.9	12.0	7.2	340	--	--	--	--
26...	1103	350	1100	--	12.0	--	--	--	--	--	--
26...	1110	375	1100	7.9	12.0	6.4	340	--	--	--	--
26...	1118	400	1100	--	12.0	--	--	--	--	--	--
26...	1125	425	1110	7.9	12.0	6.2	340	--	--	--	--
26...	1133	450	1110	--	12.0	--	--	--	--	--	--
26...	1140	475	1110	7.8	12.0	5.4	340	86	30	100	2.4
26...	1200	485	1110	7.8	12.0	4.6	340	--	--	--	--
JUL											
31...	0900	.0	1080	8.3	29.0	8.2	330	--	--	--	--
31...	0902	5.0	1100	--	29.0	--	--	--	--	--	--
31...	0905	10.0	1100	8.4	28.5	8.6	330	79	32	110	2.6
31...	0907	15.0	1100	--	28.5	--	--	--	--	--	--
31...	0909	20.0	1110	--	28.0	--	--	--	--	--	--
31...	0910	25.0	1110	8.4	28.0	8.4	320	--	--	--	--
31...	0912	30.0	1110	--	28.0	--	--	--	--	--	--
31...	0913	40.0	1100	--	27.0	--	--	--	--	--	--
31...	0914	50.0	1080	--	24.5	--	--	--	--	--	--
31...	0916	60.0	1110	--	20.0	--	--	--	--	--	--
31...	0918	70.0	1110	--	19.0	--	--	--	--	--	--
31...	0920	75.0	1130	8.1	18.0	6.2	340	84	32	110	2.6
31...	0923	80.0	1120	--	18.0	--	--	--	--	--	--
31...	0925	90.0	1120	--	17.5	--	--	--	--	--	--
31...	0927	100	1120	--	17.0	--	--	--	--	--	--
31...	0930	125	1120	8.0	16.0	6.5	340	--	--	--	--
31...	0935	150	1100	--	15.0	--	--	--	--	--	--
31...	0940	175	1100	7.9	14.0	7.2	340	--	--	--	--
31...	0945	200	1110	--	14.0	--	--	--	--	--	--
31...	0950	225	1110	7.9	13.5	7.4	340	--	--	--	--
31...	0955	250	1110	--	13.0	--	--	--	--	--	--
31...	1000	275	1100	8.0	13.0	7.0	340	85	31	100	2.4
31...	1010	294	1100	8.0	13.0	7.0	340	--	--	--	--
31...	1015	300	1100	--	13.0	--	--	--	--	--	--
31...	1020	325	1100	7.9	12.5	6.7	340	--	--	--	--
31...	1025	350	1110	--	12.5	--	--	--	--	--	--
31...	1030	375	1110	7.8	12.5	6.0	340	--	--	--	--
31...	1035	400	1110	--	12.0	--	--	--	--	--	--
31...	1040	425	1110	7.7	12.0	5.3	340	85	31	100	2.4
31...	1045	450	1110	--	12.0	--	--	--	--	--	--
31...	1050	475	1120	7.7	12.0	4.4	340	--	--	--	--
31...	1100	488	1120	7.7	12.0	4.0	340	--	--	--	--

09421000 LAKE MEAD AT HOOVER DAM, AZ-NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SAMPLING DEPTH (FT)	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)
JUN											
26...	.0	--	140	0	120	--	91	--	--	--	--
26...	5.0	--	--	--	--	--	--	--	--	--	--
26...	10.0	4.8	140	0	120	320	85	.3	8.4	712	.11
26...	15.0	--	--	--	--	--	--	--	--	--	--
26...	20.0	--	--	--	--	--	--	--	--	--	--
26...	25.0	--	140	0	120	--	92	--	--	--	--
26...	30.0	--	--	--	--	--	--	--	--	--	--
26...	40.0	--	--	--	--	--	--	--	--	--	--
26...	50.0	--	--	--	--	--	--	--	--	--	--
26...	60.0	--	--	--	--	--	--	--	--	--	--
26...	70.0	--	--	--	--	--	--	--	--	--	--
26...	75.0	--	150	0	120	--	92	--	--	--	--
26...	80.0	--	--	--	--	--	--	--	--	--	--
26...	90.0	--	--	--	--	--	--	--	--	--	--
26...	100	--	--	--	--	--	--	--	--	--	--
26...	125	--	160	0	130	--	92	--	--	--	--
26...	150	--	--	--	--	--	--	--	--	--	--
26...	175	--	160	0	130	--	92	--	--	--	--
26...	200	--	--	--	--	--	--	--	--	--	--
26...	225	--	160	0	130	--	91	--	--	--	--
26...	250	--	--	--	--	--	--	--	--	--	--
26...	275	4.6	150	0	120	300	91	.3	8.1	695	.27
26...	291	--	160	0	130	--	90	--	--	--	--
26...	300	--	--	--	--	--	--	--	--	--	--
26...	325	--	160	0	130	--	89	--	--	--	--
26...	350	--	--	--	--	--	--	--	--	--	--
26...	375	--	160	0	130	--	89	--	--	--	--
26...	400	--	--	--	--	--	--	--	--	--	--
26...	425	--	160	0	130	--	88	--	--	--	--
26...	450	--	--	--	--	--	--	--	--	--	--
26...	475	4.4	160	0	130	290	88	.3	8.2	688	.41
26...	485	--	160	0	130	--	88	--	--	--	--
JUL											
31...	.0	--	130	0	100	--	93	--	--	--	--
31...	5.0	--	--	--	--	--	--	--	--	--	--
31...	10.0	4.8	130	0	100	320	93	.4	8.4	712	--
31...	15.0	--	--	--	--	--	--	--	--	--	.02
31...	20.0	--	--	--	--	--	--	--	--	--	--
31...	25.0	--	130	0	100	--	93	--	--	--	--
31...	30.0	--	--	--	--	--	--	--	--	--	--
31...	40.0	--	--	--	--	--	--	--	--	--	--
31...	50.0	--	--	--	--	--	--	--	--	--	--
31...	60.0	--	--	--	--	--	--	--	--	--	--
31...	70.0	--	--	--	--	--	--	--	--	--	--
31...	75.0	4.7	150	0	120	310	91	.4	8.5	716	.25
31...	80.0	--	--	--	--	--	--	--	--	--	--
31...	90.0	--	--	--	--	--	--	--	--	--	--
31...	100	--	--	--	--	--	--	--	--	--	--
31...	125	--	150	0	120	--	91	--	--	--	--
31...	150	--	--	--	--	--	--	--	--	--	--
31...	175	--	160	0	120	--	90	--	--	--	--
31...	200	--	--	--	--	--	--	--	--	--	--
31...	225	--	160	0	130	--	89	--	--	--	--
31...	250	--	--	--	--	--	--	--	--	--	--
31...	275	4.5	160	0	130	290	89	.4	8.4	688	.27
31...	294	--	160	0	130	--	89	--	--	--	--
31...	300	--	--	--	--	--	--	--	--	--	--
31...	325	--	160	0	130	--	88	--	--	--	--
31...	350	--	--	--	--	--	--	--	--	--	--
31...	375	--	160	0	130	--	89	--	--	--	--
31...	400	--	--	--	--	--	--	--	--	--	--
31...	425	4.5	160	0	130	290	89	.4	8.9	689	.25
31...	450	--	--	--	--	--	--	--	--	--	--
31...	475	--	160	0	130	--	88	--	--	--	--
31...	488	--	160	0	130	--	87	.3	9.2	--	--

09421000 LAKE MEAD AT HOOVER DAM, AZ-NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLING DEPTH (FT)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO
AUG											
28...	0815	.0	1120	8.3	27.0	8.6	340	--	--	--	--
28...	0820	5.0	1120	--	27.0	--	--	--	--	--	--
28...	0825	10.0	1130	8.4	27.0	8.6	330	80	32	110	2.6
28...	0829	15.0	1130	--	26.5	--	--	--	--	--	--
28...	0832	20.0	1140	--	26.0	--	--	--	--	--	--
28...	0835	25.0	1140	8.6	26.0	8.6	340	--	--	--	--
28...	0837	30.0	1140	--	26.0	--	--	--	--	--	--
28...	0839	40.0	1140	--	26.0	--	--	--	--	--	--
28...	0840	50.0	1130	--	25.5	--	--	--	--	--	--
28...	0841	60.0	1060	--	22.5	--	--	--	--	--	--
28...	0843	70.0	1080	--	20.5	--	--	--	--	--	--
28...	0845	75.0	1100	8.1	19.5	5.0	340	--	--	--	--
28...	0847	80.0	1120	--	21.0	--	--	--	--	--	--
28...	0849	90.0	1120	--	20.5	--	--	--	--	--	--
28...	0852	100	1120	--	18.0	--	--	--	--	--	--
28...	0855	125	1120	7.9	17.0	5.2	340	--	--	--	--
28...	0900	150	1080	--	17.0	--	--	--	--	--	--
28...	0905	175	1080	8.1	15.5	6.8	340	85	31	110	2.6
28...	0910	200	1100	--	15.0	--	--	--	--	--	--
28...	0915	225	1100	8.1	13.0	6.7	340	--	--	--	--
28...	0923	250	1100	--	13.0	--	--	--	--	--	--
28...	0930	275	1100	8.0	13.0	7.2	340	85	31	110	2.6
28...	0945	294	1100	8.0	12.5	6.4	340	--	--	--	--
28...	0950	300	1100	--	12.5	--	--	--	--	--	--
28...	0955	325	1100	8.0	12.0	6.2	340	--	--	--	--
28...	1000	350	1100	--	12.0	--	--	--	--	--	--
28...	1005	375	1100	7.9	12.0	5.4	340	--	--	--	--
28...	1010	400	1100	--	12.0	--	--	--	--	--	--
28...	1015	425	1100	7.9	12.0	4.9	340	--	--	--	--
28...	1023	450	1110	--	12.0	--	--	--	--	--	--
28...	1030	475	1110	7.8	12.0	3.9	340	85	31	100	2.4
28...	1100	490	1110	7.8	12.0	3.8	340	--	--	--	--
SEP											
30...	0915	.0	1120	8.5	27.0	8.4	330	--	--	--	--
30...	0922	5.0	1130	--	27.0	--	--	--	--	--	--
30...	0930	10.0	1130	8.5	27.0	8.4	330	80	32	110	2.6
30...	0935	15.0	1140	--	25.5	--	--	--	--	--	--
30...	0940	20.0	1140	--	25.5	--	--	--	--	--	--
30...	0945	25.0	1140	8.6	25.0	8.3	330	--	--	--	--
30...	0947	30.0	1130	--	25.0	--	--	--	--	--	--
30...	0950	40.0	1130	--	25.0	--	--	--	--	--	--
30...	0953	50.0	1130	--	25.0	--	--	--	--	--	--
30...	0955	60.0	1030	--	24.5	--	--	--	--	--	--
30...	0957	70.0	1020	--	23.0	--	--	--	--	--	--
30...	1000	75.0	1050	8.2	22.0	4.7	330	--	--	--	--
30...	1004	80.0	1070	--	20.5	--	--	--	--	--	--
30...	1008	90.0	1080	--	19.5	--	--	--	--	--	--
30...	1012	100	1090	--	19.0	--	--	--	--	--	--
30...	1015	125	1100	8.0	18.0	4.5	340	--	--	--	--
30...	1023	150	1100	--	17.0	--	--	--	--	--	--
30...	1030	175	1100	8.0	16.0	5.1	340	86	31	100	2.4
30...	1038	200	1090	--	15.5	--	--	--	--	--	--
30...	1045	225	1090	8.0	14.5	6.2	340	--	--	--	--
30...	1053	250	1090	--	14.0	--	--	--	--	--	--
30...	1100	275	1090	7.9	13.5	6.1	340	--	--	--	--
30...	1115	294	1100	8.0	13.0	6.1	340	--	--	--	--
30...	1123	300	1100	--	13.0	--	--	--	--	--	--
30...	1130	325	1100	7.8	12.5	5.7	340	84	31	100	2.4
30...	1138	350	1100	--	12.5	--	--	--	--	--	--
30...	1145	375	1100	8.0	12.5	5.7	340	--	--	--	--
30...	1153	400	1100	--	12.5	--	--	--	--	--	--
30...	1200	425	1110	7.8	12.5	4.3	340	--	--	--	--
30...	1215	450	1110	--	12.5	--	--	--	--	--	--
30...	1230	475	1110	7.8	12.5	3.8	330	84	30	100	2.4
30...	1300	490	1110	7.7	12.0	3.8	340	--	--	--	--

09421000 LAKE MEAD AT HOOVER DAM, AZ-NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SAMPLING DEPTH (FT)	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)
AUG												
28...	.0	--	130	0	100	--	97	--	--	--	--	--
28...	5.0	--	--	--	--	--	--	--	--	--	--	--
28...	10.0	5.0	130	0	100	320	97	.3	8.6	717	.00	.02
28...	15.0	--	--	--	--	--	--	--	--	--	--	--
28...	20.0	--	--	--	--	--	--	--	--	--	--	--
28...	25.0	--	130	0	100	--	96	--	--	--	--	--
28...	30.0	--	--	--	--	--	--	--	--	--	--	--
28...	40.0	--	--	--	--	--	--	--	--	--	--	--
28...	50.0	--	--	--	--	--	--	--	--	--	--	--
28...	60.0	--	--	--	--	--	--	--	--	--	--	--
28...	70.0	--	--	--	--	--	--	--	--	--	--	--
28...	75.0	--	150	0	130	--	90	--	--	--	--	--
28...	80.0	--	--	--	--	--	--	--	--	--	--	--
28...	90.0	--	--	--	--	--	--	--	--	--	--	--
28...	100	--	--	--	--	--	--	--	--	--	--	--
28...	125	--	150	0	120	--	92	--	--	--	--	--
28...	150	--	--	--	--	--	--	--	--	--	--	--
28...	175	4.7	160	0	130	300	90	.2	8.3	709	--	.32
28...	200	--	--	--	--	--	--	--	--	--	--	--
28...	225	--	160	0	130	--	89	--	--	--	--	--
28...	250	--	--	--	--	--	--	--	--	--	--	--
28...	275	4.7	150	0	120	300	91	.2	8.5	705	--	.25
28...	294	--	160	0	130	--	89	--	--	--	.45	--
28...	300	--	--	--	--	--	--	--	--	--	--	--
28...	325	--	160	0	130	--	88	--	--	--	--	--
28...	350	--	--	--	--	--	--	--	--	--	--	--
28...	375	--	160	0	130	--	89	--	--	--	--	--
28...	400	--	--	--	--	--	--	--	--	--	--	--
28...	425	--	160	0	130	--	87	--	--	--	--	--
28...	450	--	--	--	--	--	--	--	--	--	--	--
28...	475	4.7	160	0	130	290	87	.3	8.7	687	--	.36
28...	490	--	160	0	140	--	85	--	--	--	--	--
SEP												
30...	.0	--	120	4	100	--	--	--	--	--	--	--
30...	5.0	--	--	--	--	--	--	--	--	--	--	--
30...	10.0	5.0	120	4	100	320	95	.3	8.9	714	--	.02
30...	15.0	--	--	--	--	--	--	--	--	--	--	--
30...	20.0	--	--	--	--	--	--	--	--	--	--	--
30...	25.0	--	120	4	100	--	--	--	--	--	--	--
30...	30.0	--	--	--	--	--	--	--	--	--	--	--
30...	40.0	--	--	--	--	--	--	--	--	--	--	--
30...	50.0	--	--	--	--	--	--	--	--	--	--	--
30...	60.0	--	--	--	--	--	--	--	--	--	--	--
30...	70.0	--	--	--	--	--	--	--	--	--	--	--
30...	75.0	--	160	0	130	--	--	--	--	--	--	--
30...	80.0	--	--	--	--	--	--	--	--	--	--	--
30...	90.0	--	--	--	--	--	--	--	--	--	--	--
30...	100	--	--	--	--	--	--	--	--	--	--	--
30...	125	--	150	0	120	--	--	--	--	--	--	--
30...	150	--	--	--	--	--	--	--	--	--	--	--
30...	175	4.5	160	0	130	300	90	.3	8.7	701	--	.41
30...	200	--	--	--	--	--	--	--	--	--	--	--
30...	225	--	160	0	130	--	--	--	--	--	--	--
30...	250	--	--	--	--	--	--	--	--	--	--	--
30...	275	--	160	0	130	--	--	--	--	--	--	--
30...	294	--	160	0	130	--	--	--	--	--	--	--
30...	300	--	--	--	--	--	--	--	--	--	--	--
30...	325	4.4	150	0	130	300	89	.3	8.7	692	--	.27
30...	350	--	--	--	--	--	--	--	--	--	--	--
30...	375	--	160	0	130	--	--	--	--	--	--	--
30...	400	--	--	--	--	--	--	--	--	--	--	--
30...	425	--	160	0	130	--	--	--	--	--	--	--
30...	450	--	--	--	--	--	--	--	--	--	--	--
30...	475	4.5	150	0	130	300	90	.3	9.0	693	--	.20
30...	490	--	160	0	130	--	--	--	--	--	--	--

BEST DOCUMENT AVAILABLE

09421000 LAKE MEAD AT HOOVER DAM, AZ-NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SAMPLING DEPTH (FT)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
AUG						
28...	.0	--	--	--	--	--
28...	5.0	--	--	--	--	--
28...	10.0	.000	.120	.98	1.1	.040
28...	15.0	--	--	--	--	--
28...	20.0	--	--	--	--	--
28...	25.0	--	--	--	--	--
28...	30.0	--	--	--	--	--
28...	40.0	--	--	--	--	--
28...	50.0	--	--	--	--	--
28...	60.0	--	--	--	--	--
28...	70.0	--	--	--	--	--
28...	75.0	--	--	--	--	--
28...	80.0	--	--	--	--	--
28...	90.0	--	--	--	--	--
28...	100	--	--	--	--	--
28...	125	--	--	--	--	--
28...	150	--	--	--	--	--
28...	175	--	--	--	--	--
28...	200	--	--	--	--	--
28...	225	--	--	--	--	--
28...	250	--	--	--	--	--
28...	275	--	--	--	--	--
28...	294	.000	.080	.64	1.2	.090
28...	300	--	--	--	--	--
28...	325	--	--	--	--	--
28...	350	--	--	--	--	--
28...	375	--	--	--	--	--
28...	400	--	--	--	--	--
28...	425	--	--	--	--	--
28...	450	--	--	--	--	--
28...	475	--	--	--	--	--
28...	490	--	--	--	--	--

DATE	TRANSPARENCY SECCHI DISK (FEET)
OCT. 10	26
NOV. 27	25
JAN. 2	44
JAN. 30	34
FEB. 28	13
MAR. 27	54
MAY 1	49
MAY 29	27
JUNE 26	32
JULY 31	32
AUG. 28	10
SEP. 30	17

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TRANSPARENCY SECCI DISK (FEET)
NOV. 1	21
NOV. 29	30
JAN. 11	32
FEB. 7	26
MAR. 1	20
MAR. 29	52
APR. 26	29
MAY 31	33
JUNE 28	25
JULY 30	28
AUG. 29	26

09421500 COLORADO RIVER BELOW HOOVER DAM, AZ-NV
(National stream-quality accounting network station)

LOCATION.--Lat 36°00'55", long 114°44'16", in NE¼SW¼ sec.3, T.30 N., R.23 W., Gila and Salt River meridian, or SW¼ NE¼ sec.29, T.22 S., R.65 E., Mount Diablo meridian, Mohave-Clark Counties, Hydrologic Unit 15030101, in powerhouse at downstream side of Hoover Dam.

DRAINAGE AREA.--171,700 mi^2 (444,700 km^2), approximately, including 3,959 mi^2 (10,254 km^2) in Great Divide basin in southern Wyoming, which is noncontributing (previously considered part of the Missouri River basin).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1933 to current year (prior to April 1934, monthly discharge only, published in WSP 1313). Published as "near Willow Beach" 1933-39 and as "below Boulder Dam" 1939-45.

GAGE.--Accoustical velocity meters on each turbine in Hoover Dam. Prior to Nov. 1, 1939, water-stage recorder at site 9 mi (14 km) downstream at datum 594.8 ft (181.30 m) National Geodetic Vertical Datum of 1929. Nov. 1, 1939, to June 30, 1958, water-stage recorder at site 0.8 mi (1.3 km) downstream at datum 600.35 ft (182.987 m) National Geodetic Vertical Datum of 1929. July 1, 1958 to Nov. 7, 1979, totalizing flowmeter on each turbine.

REMARKS.--Flow regulated by Lake Mead since Feb. 1, 1935. Many diversions above station for irrigation, industrial, and municipal use.

COOPERATION.--Records furnished by Bureau of Reclamation.

AVERAGE DISCHARGE.--46 years (water years 1935-80), 13,150 ft^3/s (372.4 m^3/s), 9,527,000 acre-ft/yr (11,700 hm^3/yr), unadjusted for storage in Lake Mead.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 36,000 ft^3/s (1,020 m^3/s) Jan. 28, 1942; no flow at Hoover Dam part of Feb. 10, 1935; minimum daily, 152 ft^3/s (4.30 m^3/s) Feb. 10, 1935.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 28,700 ft^3/s (813 m^3/s) May 23; minimum daily, 629 ft^3/s (17.8 m^3/s) Feb. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8760	11000	7890	4050	9960	662	21400	19500	10400	21500	23200	12300
2	12300	12600	7260	12800	6060	730	19400	22300	16300	19500	12500	23400
3	11800	6790	10700	11100	5500	6250	23100	13300	19200	16700	12800	16100
4	9040	4410	11000	10200	8520	7430	19800	11000	17700	10100	22600	25900
5	7100	9760	6800	7040	11900	11300	5330	22700	14400	10800	22900	22100
6	2810	10900	13000	4760	7620	11700	3110	24000	15100	9470	24100	9340
7	3650	11500	9010	9070	6670	16000	20000	22700	10700	18400	24700	9950
8	11600	9300	5030	13200	7620	4940	24400	23100	11900	20900	22600	15600
9	10400	10700	4740	10700	4040	5170	20400	23800	22200	17700	12800	15300
10	7930	5150	14300	9790	2460	18900	20900	10500	22500	23700	13700	16300
11	9020	5520	8160	11400	4340	19000	22300	7390	21500	23500	21700	16900
12	9660	10300	9580	4630	6790	19500	17200	20400	20700	10800	23900	19900
13	4290	13400	9550	2530	8610	24600	15200	23000	19900	8490	23200	7880
14	3360	14200	11100	5720	7740	19900	23000	26200	12000	19800	23800	7450
15	4530	9340	9740	4520	8870	12500	25100	26200	12500	20600	22900	15600
16	9580	9730	6960	4670	5210	9850	22800	27500	24100	23200	10900	17200
17	8500	4720	5870	8870	1120	19600	23000	18000	24100	22100	13300	19700
18	9610	4420	7510	14500	3140	20900	23400	14200	21900	25000	24600	15200
19	9260	12100	10300	6270	3620	21300	6760	26800	22400	13300	22700	14900
20	4050	11900	7350	5510	4120	22100	9220	18800	22100	12300	20900	6840
21	3660	14400	7440	10600	1150	19100	20600	17100	14700	24500	24600	8210
22	11500	2310	8120	6100	3040	12600	24100	20000	10800	25900	22900	15400
23	15500	4030	6610	5340	1040	11900	23900	28700	20800	25300	20500	14500
24	13300	3750	3830	4470	761	23600	23500	19600	19800	26700	19200	16400
25	14600	3920	3130	6960	1020	21400	23500	16300	19700	24200	25000	17000
26	10600	9460	16600	4040	1490	22600	12300	16300	19300	15500	15600	13700
27	4330	12900	10800	3690	1130	25800	10800	25100	23100	14700	15700	7570
28	4010	11900	7940	12500	831	22400	22500	24300	12400	22700	16100	7120
29	11500	10500	4220	8040	629	9680	19800	24600	11300	22200	18400	17000
30	7930	12800	5010	7920	---	6650	22600	25700	19300	25600	12300	18400
31	13200	---	6200	6730	---	20600	---	16300	---	24800	12000	---
TOTAL	267380	273710	254750	237720	135001	468662	569420	635390	532800	599960	602100	443160
MEAN	8625	9124	8218	7668	4655	15120	18980	20500	17760	19350	19420	14770
MAX	15500	14400	16600	14500	11900	25800	25100	28700	24100	26700	25000	25900
MIN	2810	2310	3130	2530	629	662	3110	7390	10400	8490	10900	6840
AC-FT	530300	542900	505300	471500	267800	929600	1129000	1260000	1057000	1190000	1194000	879000

CAL YR 1979 TOTAL 3892730 MEAN 10670 MAX 25900 MIN 587 AC-FT 7721000
WTR YR 1980 TOTAL 5020053 MEAN 13720 MAX 28700 MIN 629 AC-FT 9957000

09421500 COLORADO RIVER BELOW HOOVER DAM, AZ-NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1939 to current year.

CHEMICAL ANALYSES: October 1939 to September 1944, once-daily (composited); October 1944 to July 1946 and November 1948 to July 1950, occasional (composited); October 1950 to September 1957, once-daily (composited); October 1957 to September 1962, twice-monthly (composited); October 1963 to September 1967, three times per month (composited); October 1967 to March 1970, once-daily (composited); April 1970 to current year, monthly.

SPECIFIC CONDUCTANCES: October 1939 to July 1957, once-daily; August 1957 to September 1962 and October 1963 to March 1970, variable frequency of measurement; April 1970 to September 1977, monthly; October 1977 to current year, hourly.

BIOLOGICAL DATA: November 1974 to September 1977, monthly; October 1977 to current year, monthly (seasonal).

MICROBIOLOGICAL DATA: November 1974 to current year, monthly.

WATER TEMPERATURES: October 1941 to July 1957, once-daily; August 1957 to March 1970, variable frequency of measurement; April 1970 to September 1977, monthly; October 1977 to current year, hourly.

SEDIMENT DATA: August 1975 to current year, monthly.

INSTRUMENTATION.--Specific-conductance and water temperature recorder October 1977 to current year.

REMARKS.--Samples collected 0.3 mi (0.5 km) downstream from gaging station in Hoover Dam powerhouse. Unpublished chemical analyses for period October 1939 to September 1940 available from district office in Tucson, Ariz. No daily specific-conductance or water-temperature data available for October and November 1979 because recorder probes were not submerged.

EXTREMES MEASURED FOR PERIOD OF RECORD SINCE OCTOBER 1970.--

SPECIFIC CONDUCTANCES: Maximum, 1,230 micromhos Jan. 18, 1972; minimum, 1,000 micromhos June 19, 1972.

PHYTOPLANKTON: Maximum, 3,800 cells/mL Nov. 5, 1974; minimum, 5 cells/mL Aug. 9, 1977.

FECAL STREPTOCOCCI: Maximum, 45 colonies/100 mL Mar. 9, 1977; minimum, <1 colony/100 mL several times during period of record.

WATER TEMPERATURES: Maximum, 18.5°C April 21, 1970; minimum, 9.0°C Feb. 12, 1975, Jan. 10, 1978.

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 6 mg/L Mar. 7, 1978; minimum, 0 mg/L on several days in 1976, Oct. 16, 1979, and several days in 1980.

EXTREMES FOR CURRENT YEAR (MEASUREMENTS AT LEAST ONCE-DAILY).--

SPECIFIC CONDUCTANCES: Maximum, 1,180 micromhos; June 5; minimum, 1,020 micromhos Sept. 29.

WATER TEMPERATURES: Maximum, 16.0°C Sept. 23; minimum, 10.0°C July 1-3.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH FIELD (UNITS)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
OCT												
16...	0800	9020	1140	7.9	12.0	.80	8.1	3	--	--	330	84
17...	0800	--	--	--	--	--	--	--	<1	<1	--	--
NOV												
14...	0830	14600	1120	7.6	11.5	.20	--	--	--	--	310	78
DEC												
10...	0820	8260	1100	7.6	11.5	.50	6.8	--	--	--	320	83
11...	0800	--	--	--	--	--	--	--	<1	<1	--	--
JAN												
08...	0830	11100	1100	7.4	11.5	.00	8.1	--	<1	4	330	84
FEB												
12...	0800	7160	1120	7.7	11.0	.30	7.8	--	<1	<1	320	83
18...	0800	22200	1100	7.8	13.0	.50	7.2	--	--	--	330	83
MAR												
11...	0800	20500	1100	7.8	11.5	.60	8.2	--	--	--	340	86
12...	1300	--	--	--	--	--	--	--	<1	<1	--	--
APR												
08...	0800	27800	1120	7.8	11.5	.00	7.9	--	<1	<1	330	84
MAY												
13...	0800	24500	1150	7.8	12.0	1.6	7.7	--	--	--	330	84
14...	0800	--	--	--	--	--	--	--	<1	1	--	--
JUN												
10...	0830	28900	1180	7.7	13.0	1.2	8.3	--	--	--	340	83
11...	0800	--	--	--	--	--	--	--	<1	1	--	--
JUL												
08...	0800	21600	1130	7.9	12.5	.60	7.6	--	--	--	330	83
09...	0800	--	--	--	--	--	--	--	<1	5	--	--
AUG												
12...	0800	27200	1120	8.0	13.0	.20	7.8	--	--	--	330	85
13...	0800	--	--	--	--	--	--	--	<1	<1	--	--
SEP												
10...	0800	17800	1150	7.8	12.5	.20	7.2	--	<1	<1	340	88

09421500 COLORADO RIVER BELOW HOOVER DAM, AZ-NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 to SEPTEMBER 1980

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY FIELD (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER DAY)
OCT												
16...	30	99	2.4	5.2	130	310	94	.5	9.3	745	712	18100
17...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
14...	27	97	2.4	5.3	130	290	83	.4	8.6	721	670	28400
DEC												
10...	28	100	2.4	4.8	130	260	87	.3	8.9	728	652	16200
11...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
08...	29	110	2.6	5.1	130	290	89	.3	9.1	720	696	21600
FEB												
12...	28	98	2.4	4.8	120	300	90	.3	8.8	739	687	14300
18...	29	100	2.4	4.6	120	300	87	.3	8.6	712	686	42700
MAR												
11...	31	110	2.6	5.1	130	310	87	.4	8.5	734	718	40600
12...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
08...	29	100	2.4	4.9	130	300	88	.3	8.6	728	694	54600
MAY												
13...	30	110	2.6	4.3	120	300	89	.3	9.0	716	700	47400
14...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
10...	31	110	2.6	5.1	120	310	92	.3	8.6	735	714	57400
11...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
08...	30	110	2.6	5.6	130	300	93	.4	8.8	727	711	42400
09...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
12...	29	110	2.6	5.6	130	300	95	.5	8.7	737	714	54100
13...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
10...	30	100	2.3	5.8	120	310	94	.4	8.5	721	710	34700

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, DISSOLV (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DISSOLVED (MG/L AS C)
OCT												
16...	.38	.010	--	1.2	1.1	1.6	1.6	.010	.010	.020	2.4	--
17...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
14...	.48	.020	.040	.60	--	1.1	--	.020	.020	--	--	3.4
DEC												
10...	.44	.010	.010	.99	.83	1.5	1.3	.310	.010	--	9.5	--
11...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
08...	.38	.040	.010	.81	.68	1.2	1.1	.010	.000	--	7.4	--
FEB												
12...	.30	.010	.010	.44	.40	.79	.71	.010	.000	--	--	3.3
18...	.29	.030	.020	.74	.74	1.1	1.1	.030	.030	--	--	32
MAR												
11...	.36	.200	.060	.49	.50	1.0	.92	.280	.010		5.3	
12...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
08...	.34	.270	.180	.33	.32	.95	.84	.030	.030	--	4.4	--
MAY												
13...	.29	.000	.000	.46	.44	.80	.73	.040	.010	--	--	5.6
14...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
10...	.33	.040	.030	.96	.96	1.3	1.3	.020	.030	--	9.7	--
11...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
08...	.36	.000	.000	.62	.40	1.0	.76	.000	.010	--	3.4	--
09...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
12...	.37	.000	.000	1.1	.25	1.5	.62	.020	.020	--	--	3.6
13...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
10...	.35	.060	.050	.49	.44	.96	.84	.020	.000	--	3.1	--

BEST DOCUMENT AVAILABLE

09421500 COLORADO RIVER BELOW HOOVER DAM, AZ-NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)
OCT												
16...	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
14...	--	5	3	400	100	0	2	0	0	2	<3	2
DEC												
10...	--	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
08...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
12...	.1	4	4	--	100	0	<1	10	0	0	<3	2
18...	.1	3	3	100	100	0	2	0	0	0	<3	4
MAR												
11...	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
08...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
13...	.1	4	4	100	100	0	2	0	0	0	<3	2
14...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
10...	--	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
08...	--	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
12...	.0	5	4	200	100	0	<1	0	10	0	<3	2
13...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
10...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)
OCT												
16...	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
14...	0	40	<10	3	0	10	<1	.1	.0	5	0	1
DEC												
10...	--	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
08...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
12...	0	40	20	0	1	--	2	.0	.0	2	0	3
18...	3	80	10	2	0	10	3	.0	.1	4	1	3
MAR												
11...	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
08...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
13...	3	70	<10	1	0	10	2	.0	.0	3	2	3
14...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
10...	--	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
08...	--	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
12...	1	40	<10	1	1	10	<1	.0	.0	3	2	3
13...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
10...	--	--	--	--	--	--	--	--	--	--	--	--

09421500 COLORADO RIVER BELOW HOOVER DAM, AZ-NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 THROUGH SEPTEMBER 1980

DATE	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)
OCT											
16...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
NOV											
14...	0	0	0	20	4	--	--	--	--	--	--
DEC											
10...	--	0	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--
JAN											
08...	--	--	--	--	--	--	--	--	--	--	--
FEB											
12...	3	0	0	10	8	--	--	--	--	--	--
18...	3	0	0	70	30	--	--	--	--	--	--
MAR											
11...	--	6	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--
APR											
08...	--	--	--	--	--	--	--	--	--	--	--
MAY											
13...	3	0	0	40	<3	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
JUN											
10...	--	0	--	--	--	<11	<.4	6.9	.8	6.7	.8
11...	--	--	--	--	--	--	--	--	--	--	--
JUL											
08...	--	--	--	--	--	<13	<.4	5.9	.6	5.7	.6
09...	--	--	--	--	--	--	--	--	--	--	--
AUG											
12...	3	0	0	30	4	<9.9	<.4	--	--	7.4	.6
13...	--	--	--	--	--	--	--	--	--	--	--
SEP											
10...	--	0	--	--	--	18	<.4	6.2	.8	6.0	.8

09421500 COLORADO RIVER BLW HOOVER DAM, AZ-NV--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE	MAR 11,80	MAY 13,80	JUN 10,80	JUL 8,80	AUG 12,80	SEP 10,80
TIME	0800	0800	0830	0800	0800	0800
TOTAL CELLS/ML	690	700	2200	1900	1100	3100
DIVERSITY: DIVISION	0.0	0.0	0.1	0.4	0.2	0.1
.CLASS	0.0	0.0	0.1	0.4	0.2	0.1
..ORDER	0.0	0.7	0.1	0.5	0.2	0.1
...FAMILY	0.0	0.7	0.8	0.5	0.2	0.1
....GENUS	0.0	0.7	0.8	0.5	0.2	0.1

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)												
.CHLOROPHYCEAE												
..CHLOROCOCCALES												
...OOCYSTACEAE												
....OOCYSTIS	--	-	--	-	--	-	--	-	--	-	3100#	99
...SCENEDESMACEAE												
....CRUCIGENIA	--	-	--	-	--	-	100	5	--	-	--	-
..VOLVOCALES												
...CHLAMYDOMONADACEAE												
....CHLAMYDOMONAS	--	-	--	-	--	-	13	1	--	-	--	-
CHRYSOPHYTA												
.BACILLARIOPHYCEAE												
..CENTRALES												
...COSCINODISCACEAE												
....CYCLOTELLA	--	-	--	-	--	-	13	1	13	1	--	-
..PENNALES												
...DIATOMACEAE												
....DIATOMA	--	-	--	-	--	-	13	1	--	-	--	-
...NAVICULACEAE												
....NAVICULA	--	-	--	-	13	1	--	-	13	1	--	-
...NITZSCHIACEAE												
....NITZSCHIA	--	-	--	-	13	1	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)												
.CYANOPHYCEAE												
..CHROOCOCCALES												
...CHROOCOCCACEAE												
....ANACYSTIS	--	-	140#	20	--	-	--	-	--	-	*	0
..HORMOGONALES												
...NOSTOCACEAE												
....ANABAENA	--	-	--	-	390#	17	--	-	--	-	--	-
...OSCILLATORIACEAE												
....OSCILLATORIA	690#	100	560#	80	1800#	81	1800#	93	1100#	98	--	-
PYRRHOPHYTA (FIRE ALGAE)												
.DINOPHYCEAE												
..PERIDINIALES												
...GLENODINIACEAE												
....GLENODINIUM	--	-	--	-	--	-	--	-	--	-	*	0

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

COLORADO RIVER MAIN STEM

09421500 COLORADO RIVER BELOW HOOVER DAM, AZ-NV-Continued

PERIPHYTON

RETRIEVAL DATE	LENGTH OF EXPOSURE POLYETHYLENE STRIP (DAYS)	BIOMASS (G/M^2) DRY WEIGHT	BIOMASS (G/M^2) ASH WEIGHT	CHLOROPHYLL A (MG/M^2)	CHLOROPHYLL B (MG/M^2)
Feb 12	35	10.4	8.50	108	1.89
May 13	35	.472	.315	.460	.100
July 8	28	30.5	26.0	76.7	.000
Aug 12	35	1.97	1.34	2.68	1.37

09421500 COLORADO RIVER BELOW HOOVER DAM, AZ-NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 THROUGH SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT				
16...	0800	9020	0	.00
NOV				
14...	0830	14600	2	79
DEC				
10...	0820	8260	2	45
JAN				
08...	0830	11100	2	60
FEB				
12...	0800	7160	0	.00
MAR				
11...	0800	20500	0	.00
APR				
08...	0800	27800	1	75
MAY				
13...	0800	24500	1	66
JUN				
10...	0830	28900	1	78
JUL				
08...	0800	21600	1	58
AUG				
12...	0800	27200	1	73
SEP				
10...	0800	17800	0	.00

09421500 COLORADO RIVER BLW HOOVER DAM, AZ-NV

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1					1120	1110	1100	1090	1120	1060	1100	1090
2					---	---	1100	1100	1120	1110	1100	1090
3					1120	1110	1100	1090	1120	1110	1100	1100
4					1120	1110	1110	1090	1120	1100	1110	1100
5					1120	1110	1100	1090	1120	1110	1110	1090
6					1120	1110	1100	1100	1110	1100	1110	1090
7					1110	1090	1100	1090	1120	1100	1110	1100
8					1090	1080	1100	1090	1120	1110	1120	1100
9					1090	1090	1090	1080	1120	1100	1120	1100
10					1090	1080	1100	1090	1110	1090	1110	1100
11					1100	1090	1110	1090	1110	1090	1110	1100
12					1100	1090	1100	1090	1120	1100	1110	1090
13					1100	1090	1110	1090	1110	1100	1110	1110
14					1100	1090	1100	1090	1120	1100	1110	1100
15					1100	1090	1110	1090	1110	1090	1110	1100
16					1100	1090	1100	1090	1110	1090	1120	1100
17					1100	1090	1100	1090	1110	1100	1120	1110
18					1100	1090	1100	1090	1100	1100	1110	1100
19					1100	1090	1100	1090	1100	1100	1110	1100
20					1100	1090	1110	1100	1110	1100	1110	1100
21					1100	1090	1110	1100	1110	1090	1120	1040
22					1100	1090	1110	1100	1110	1100	1120	1100
23					1100	1090	1110	1100	1110	1100	1110	1080
24					1100	1090	1110	1090	1120	1100	1110	1080
25					1100	1090	1110	1100	1110	1100	1120	1090
26					1100	1080	1100	1090	1110	1090	1120	1090
27					1100	1090	1100	1090	1100	1080	1120	1100
28					1100	1090	1100	1090	1100	1090	1120	1110
29					1100	1100	1100	1090	1100	1080	1120	1110
30					1100	1100	1120	1090	---	---	1120	1100
31					1100	1090	1130	1110	---	---	1120	1110
MONTH					1120	1080	1130	1080	1120	1060	1120	1040

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	1120	1110	1130	1120	1130	1120	1120	1110	1130	1100	---	---
2	1120	1110	1130	1120	1130	1120	1120	1110	1120	1090	---	---
3	1120	1110	1130	1120	1140	1120	1120	1110	1100	1090	---	---
4	1120	1110	1130	1120	1170	1120	1120	1110	1120	1100	---	---
5	1120	1100	1160	1130	1180	1120	1120	1110	1100	1100	---	---
6	1120	1100	1160	1120	1150	1120	1120	1110	1100	1100	---	---
7	1120	1110	1140	1120	1130	1120	1120	1110	1100	1100	---	---
8	1120	1110	1130	1120	1120	1120	1110	1100	1100	1100	---	---
9	1120	1110	1130	1120	1130	1120	1130	1100	1110	1100	1130	1100
10	1120	1110	1130	1120	1130	1120	1120	1100	1110	1100	1100	1090
11	1120	1110	1130	1120	1150	1120	1100	1100	1120	1100	1100	1090
12	1120	1110	1130	1120	1150	1130	1100	1100	1120	1110	1100	1100
13	1120	1110	1130	1120	1160	1080	1100	1090	1120	1110	1100	1090
14	1120	1110	1130	1120	1150	1120	---	---	1120	1110	1100	1090
15	1120	1110	1130	1120	1140	1120	1100	1100	1120	1100	1100	1090
16	1120	1110	1160	1130	1140	1120	1100	1100	1120	1100	1110	1090
17	1120	1110	1170	1130	1140	1120	1100	1100	1120	1110	1100	1090
18	1120	1120	1160	1120	1120	1120	1110	1100	1110	1110	1100	1090
19	1120	1110	1160	1120	1120	1120	1120	1100	1120	1100	1110	1090
20	1120	1110	1150	1120	1120	1120	1110	1100	1110	1110	1110	1090
21	1120	1110	1130	1120	1120	1120	1110	1100	1110	1110	1100	1090
22	1130	1110	1130	1120	1120	1110	1100	1100	1110	1110	1100	1090
23	1130	1120	1130	1120	1120	1110	1120	1090	1110	1100	1100	1090
24	1130	1120	1130	1110	1120	1110	1120	1110	1110	1100	1100	1090
25	1130	1120	1130	1110	1120	1110	1120	1110	1120	1110	1100	1090
26	1150	1120	1120	1120	1120	1110	1130	1100	1120	1110	1100	1090
27	1150	1120	1120	1120	1120	1110	1120	1100	1120	1110	1100	1090
28	1130	1120	1130	1120	1120	1110	1130	1100	1110	1110	1100	1080
29	1130	1120	1120	1120	1120	1110	1120	1110	---	---	1100	1020
30	1130	1120	1130	1120	1120	1110	1130	1110	---	---	1120	1090
31	---	---	1130	1120	---	---	1130	1110	---	---	---	---
MONTH	1150	1100	1170	1110	1180	1080	1130	1090	1130	1090	1130	1020
YEAR	1180	1020										

09421500 COLORADO RIVER BLW HOOVER DAM, AZ-NV

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1					---	12.5	11.5	11.0	11.5	11.0	11.5	11.5
2					---	---	11.5	11.0	11.5	11.5	11.5	11.0
3					---	12.5	11.5	11.0	11.5	11.5	11.5	10.5
4					---	12.5	11.5	11.0	12.0	11.0	11.5	11.0
5					---	12.5	11.5	11.0	11.5	11.0	11.5	11.0
6					---	12.5	11.5	11.0	11.5	11.0	11.5	10.5
7					---	11.5	11.5	11.0	12.0	11.0	11.5	11.0
8					12.5	11.5	11.5	11.0	12.0	11.5	12.5	11.5
9					12.5	11.5	11.5	11.0	12.0	11.5	12.5	11.5
10					12.0	11.5	11.5	11.0	12.0	11.0	12.0	11.0
11					12.0	11.5	11.5	11.0	12.0	11.0	11.5	11.0
12					12.0	11.0	11.5	11.0	12.0	11.0	11.5	11.5
13					12.0	11.5	12.0	11.0	11.5	11.0	11.5	11.5
14					12.0	11.5	11.5	11.0	11.5	11.0	11.5	11.0
15					12.0	11.5	12.0	11.0	11.0	11.0	11.5	11.0
16					12.0	11.5	11.5	11.0	11.5	11.0	12.0	11.5
17					12.0	11.5	11.0	11.0	11.5	11.0	12.0	11.5
18					12.0	11.5	11.0	10.5	11.5	11.0	11.5	11.0
19					12.0	11.5	11.5	10.5	11.5	10.5	11.5	11.0
20					12.0	11.5	11.5	11.0	12.0	11.0	11.5	11.0
21					12.0	11.0	11.5	11.0	11.5	11.0	11.5	11.0
22					11.5	11.0	11.5	11.0	11.5	11.0	12.0	11.5
23					11.5	11.0	12.0	11.0	12.0	11.5	11.5	11.0
24					11.5	11.0	11.5	11.0	12.0	11.0	11.5	11.0
25					11.5	11.0	11.5	11.0	12.0	11.0	11.5	11.0
26					11.5	11.0	11.5	11.0	12.0	11.0	11.5	11.0
27					11.5	11.0	11.5	11.0	12.0	11.0	11.5	11.0
28					11.5	11.0	11.5	11.0	11.5	11.0	11.5	11.0
29					11.5	11.0	11.0	11.0	12.0	11.0	12.0	11.0
30					11.5	11.0	12.0	11.0	---	---	12.0	11.0
31					11.5	11.0	12.0	11.5	---	---	12.0	11.0
MONTH					12.5	11.0	12.0	10.5	12.0	10.5	12.5	10.5

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	11.5	11.0	12.0	11.5	11.5	11.0	11.5	10.0	12.0	11.5	---	---
2	11.5	11.0	12.0	11.5	11.0	10.5	11.5	10.0	11.5	11.0	---	---
3	11.5	11.5	12.0	11.5	11.5	10.5	11.0	10.0	12.5	11.5	---	---
4	11.5	11.0	12.0	11.5	11.5	11.0	11.0	10.5	12.0	11.0	---	---
5	12.0	11.5	12.0	11.5	11.5	10.5	11.5	10.5	11.5	11.0	---	---
6	12.0	11.5	12.0	11.5	11.5	11.0	11.5	10.5	12.0	11.0	---	---
7	12.0	11.5	12.5	11.5	11.5	11.0	12.0	11.0	12.0	11.5	---	---
8	12.0	11.5	12.0	11.5	11.0	10.5	12.5	11.5	12.0	11.5	---	---
9	12.0	11.0	11.5	11.0	11.0	11.0	13.0	11.5	12.5	11.5	12.0	11.0
10	11.5	11.0	12.0	11.5	12.5	11.0	12.0	11.5	12.5	11.5	11.0	11.0
11	12.0	11.5	12.0	11.5	12.5	11.5	12.0	11.0	12.5	10.5	11.5	10.5
12	11.5	11.0	11.5	11.5	12.0	11.0	13.0	11.5	11.5	10.5	11.0	10.5
13	11.5	11.5	11.5	11.0	12.5	11.0	12.5	12.0	11.5	10.5	11.0	11.0
14	11.5	11.5	12.0	11.0	12.0	11.0	---	---	11.5	11.0	11.5	11.0
15	11.5	11.5	11.5	11.0	12.0	11.0	12.5	11.5	11.0	10.5	11.5	11.0
16	11.5	11.5	11.5	11.0	11.5	11.0	12.0	11.5	11.0	11.0	11.5	11.0
17	11.5	11.5	11.5	11.0	11.0	10.5	12.5	11.5	11.0	10.5	11.5	11.0
18	12.0	11.5	11.5	11.0	12.0	10.5	12.5	11.5	11.5	11.0	11.5	11.0
19	12.0	11.5	11.5	11.0	12.0	11.0	13.0	11.5	11.5	11.0	---	11.0
20	12.0	11.5	11.5	11.0	12.0	11.0	12.5	12.0	13.5	11.0	12.0	11.0
21	12.0	11.5	11.5	11.0	12.0	11.5	13.0	12.0	12.0	11.0	11.5	11.0
22	12.0	11.5	11.5	11.0	12.0	11.0	13.0	12.0	12.5	11.0	12.0	11.0
23	12.0	11.5	11.5	11.0	12.0	10.5	13.0	11.5	12.0	11.0	16.0	11.0
24	12.0	11.5	11.5	11.0	11.5	10.5	13.5	12.0	11.5	11.0	15.5	11.0
25	12.0	11.5	12.0	11.0	12.0	10.5	13.0	12.0	11.5	11.0	12.0	11.0
26	12.0	11.5	11.5	11.0	12.5	11.0	13.0	12.0	12.5	11.5	11.5	11.0
27	12.0	11.5	11.5	11.0	12.0	11.0	12.5	11.5	11.5	11.5	12.0	11.0
28	12.0	11.5	11.5	11.0	13.0	11.5	13.0	12.0	11.5	11.5	13.0	11.0
29	12.0	11.5	11.5	11.0	13.0	11.5	13.0	11.5	---	---	15.0	11.0
30	12.0	11.5	11.0	11.0	12.0	11.0	12.5	12.0	---	---	11.5	11.0
31	---	---	11.5	11.0	---	---	13.0	11.5	---	---	---	---
MONTH	12.0	11.0	12.5	11.0	13.0	10.5	13.5	10.0	13.5	10.5	16.0	10.5
YEAR	16.0	10.0										

09422500 LAKE MOHAVE AT DAVIS DAM, AZ-NV

LOCATION.--Lat 35°11'50", long 114°34'07", in SW¼SW¼ sec.18, T.21 N., R.21 W., Gila and Salt River meridian, Mohave County, Hydrologic Unit 15030101, on forebay structure on Arizona side of Davis Dam Colorado River, 29 mi (47 km) west of Kingman, Ariz., and 67 mi (108 km) downstream from Hoover Dam.

DRAINAGE AREA.--173,300 mi^2 (448,800 km^2), approximately, including 3,959 mi^2 (10,254 km^2) in Great Divide basin in southern Wyoming, which is noncontributing (previously considered part of the Missouri River basin).

PERIOD OF RECORD.--January 1950 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Reservoir is formed by earthfill and rockfill dam; dam completed in April 1949 and storage began Jan. 17, 1950. Usable capacity, 1,810,000 acre-ft (2,230 hm^3) between elevations 533.39 ft (162.577 m)--lowest point of penstock outlet--and 647.0 ft (197.21 m)--top of spillway gates. A small amount of additional storage is available through use of splashboards on the spillway gates. Dead storage, 8,530 acre-ft (10.5 hm^3) below elevation 533.39 ft (162.577 m). Lake is used for power development, re-regulation for irrigation demand, and to satisfy requirements of the Treaty of 1944 with Mexico. Figures given herein represent usable contents.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,811,000 acre-ft (2,230 hm^3) May 24, 1958, May 29, 1963; maximum elevation, 647.04 ft (197.218 m) May 29, 1963; minimum contents (since 1952), 1,168,000 acre-ft (1,440 hm^3) Sept. 8, 1953, elevation, 622.15 ft (189.631 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,768,000 acre-ft (2,180 hm^3) May. 31, elevation 645.49 ft (196.745 m); minimum contents, 1,361,000 acre-ft (1,680 hm^3) Oct. 22, elevation 630.08 ft (192.048 m).

Capacity table (elevation, in feet, and usable contents, in acre-feet)

630	1,359,000	641	1,644,000
632	1,409,000	644	1,726,000
635	1,486,000	647	1,810,000
638	1,564,000		

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1423000	1424000	1535000	1637000	1747000	1656000	1634000	1564000	1747000	1592000	1570000	1526000
2	1428000	1433000	1542000	1648000	1748000	1656000	1637000	1580000	1741000	1590000	1560000	1534000
3	1431000	1432000	1549000	1658000	1746000	1613000	1646000	1577000	1745000	1582000	1549000	1531000
4	1430000	1426000	1558000	1670000	1751000	1609000	1648000	1569000	1747000	1564000	1553000	1547000
5	1427000	1431000	1558000	1676000	1758000	1608000	1625000	1583000	1736000	1546000	1559000	1556000
6	1412000	1437000	1568000	1677000	1762000	1599000	1596000	1603000	1737000	1524000	1567000	1541000
7	1401000	1447000	1571000	1685000	1758000	1599000	1593000	1615000	1726000	1522000	1577000	1528000
8	1405000	1454000	1567000	1698000	1752000	1572000	1600000	1629000	1704000	1526000	1581000	1524000
9	1408000	1462000	1565000	1709000	1737000	1546000	1600000	1639000	1708000	1524000	1569000	1522000
10	1405000	1458000	1578000	1722000	1725000	1553000	1602000	1624000	1717000	1537000	1556000	1517000
11	1404000	1459000	1585000	1733000	1713000	1574000	1604000	1603000	1727000	1542000	1557000	1514000
12	1407000	1465000	1585000	1733000	1705000	1597000	1592000	1605000	1719000	1526000	1564000	1516000
13	1399000	1476000	1588000	1728000	1708000	1618000	1575000	1616000	1715000	1505000	1544000	1496000
14	1390000	1492000	1594000	1729000	1720000	1624000	1576000	1634000	1698000	1502000	1577000	1480000
15	1380000	1497000	1595000	1732000	1730000	1618000	1580000	1652000	1680000	1500000	1582000	1477000
16	1385000	1500000	1596000	1731000	1738000	1608000	1580000	1674000	1684000	1500000	1566000	1478000
17	1383000	1492000	1592000	1738000	1737000	1613000	1578000	1675000	1690000	1502000	1552000	1486000
18	1385000	1489000	1589000	1756000	1739000	1621000	1579000	1671000	1691000	1508000	1549000	1485000
19	1384000	1498000	1593000	1761000	1744000	1623000	1548000	1690000	1690000	1494000	1554000	1484000
20	1374000	1508000	1597000	1760000	1744000	1631000	1550000	1693000	1693000	1477000	1558000	1470000
21	1364000	1522000	1605000	1765000	1742000	1638000	1517000	1694000	1685000	1480000	1563000	1456000
22	1368000	1514000	1610000	1760000	1742000	1632000	1523000	1698000	1670000	1491000	1568000	1456000
23	1383000	1506000	1612000	1750000	1744000	1625000	1531000	1719000	1668000	1502000	1568000	1453000
24	1394000	1497000	1609000	1745000	1742000	1635000	1541000	1724000	1661000	1515000	1569000	1454000
25	1408000	1492000	1605000	1739000	1740000	1643000	1547000	1720000	1652000	1524000	1579000	1457000
26	1414000	1497000	1623000	1728000	1733000	1652000	1533000	1718000	1642000	1517000	1572000	1455000
27	1406000	1506000	1635000	1719000	1722000	1667000	1518000	1732000	1641000	1506000	1562000	1442000
28	1401000	1515000	1641000	1725000	1707000	1672000	1524000	1742000	1618000	1512000	1553000	1429000
29	1408000	1522000	1638000	1730000	1684000	1657000	1534000	1751000	1591000	1525000	1554000	1437000
30	1407000	1534000	1639000	1739000	---	1639000	1552000	1765000	1585000	1545000	1545000	1445000
31	1420000	---	1638000	1737000	---	1638000	---	1762000	---	1558000	1536000	---
MAX	1431000	1534000	1641000	1765000	1762000	1672000	1648000	1765000	1747000	1592000	1582000	1556000
MIN	1364000	1424000	1535000	1637000	1684000	1546000	1517000	1564000	1585000	1477000	1536000	1429000
(†)	632.43	636.83	640.78	644.40	642.45	640.77	637.55	645.27	638.77	637.78	636.93	633.40
(‡)	-8000	+114000	+104000	+99000	-53000	-46000	-86000	+210000	-177000	-27000	-22000	-91000

CAL YR 1979 MAX 1757000 MIN 1364000 ‡ -44000
WTR YR 1980 MAX 1765000 MIN 1364000 ‡ +17000

† Elevation, in feet, at end of month.
‡ Change in storage, in acre-feet.

09423000 COLORADO RIVER BELOW DAVIS DAM, AZ-NV

LOCATION.--Lat 35°11'30", long 114°34'17", in SE¼NE¼ sec.1, T.32 S., R.66 E., Mount Diablo meridian, in Nevada, Clark County, Hydrologic Unit 15030101, on right bank 0.5 mi (0.8 km) downstream from Davis Dam, 29 mi (47 km) west of Kingman, Ariz., and 68 mi (109 km) downstream from Hoover Dam.

DRAINAGE AREA.--173,300 mi^2 (448,800 km^2), approximately, including 3,959 mi^2 (10,254 km^2) in Great Divide basin in southern Wyoming, which is noncontributing (previously considered part of the Missouri River basin).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1905 to September 1907 (published as "at Hardyville"), March 1949 to current year.

GAGE.--Water-stage recorder. Datum of gage is 490.00 ft (149.352 m), corrected, National Geodetic Vertical Datum of 1929; gage readings have been reduced to elevations NGVD since Oct. 1, 1967. 1905-7, nonrecording gage at site 4.8 mi (7.7 km) downstream at datum about 3.4 ft (1.04 m) lower. Mar. 16 to May 3, 1949, water-stage recorder at site 0.5 mi (0.8 km) downstream at datum 10.00 ft (3.048 m) higher. May 4, 1949, to Feb. 24, 1956, water-stage recorder at site 400 ft (120 m) upstream at datum (3.048 m) higher. Feb. 25, 1956, to Sept. 30, 1967, water-stage recorder at present site at datum 10.00 ft (3.048 m) higher.

REMARKS.--Records good. Flow regulated by Lake Mead since Feb. 1, 1935, and by Lake Mohave since Jan. 17, 1950. Many diversions upstream for irrigation, industrial, and municipal uses.

AVERAGE DISCHARGE.--31 years (water years 1950-80), 12,440 ft^3/s (352.3 m^3/s), 9,013,000 acre-ft/yr (11,100 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--1905-7: Maximum daily discharge, 116,000 ft^3/s (3,290 m^3/s) June 20, 1906; minimum daily, 2,850 ft^3/s (80.7 m^3/s) Jan. 5, 1906.
1949-80: Maximum discharge, 31,200 ft^3/s (884 m^3/s) Apr. 22, 1952, elevation, 513.91 ft (156.640 m); no flow at Davis Dam parts of several days July to September 1950 and Dec. 27, 1950, when gates in dam were closed; minimum daily discharge, 285 ft^3/s (8.07 m^3/s) Aug. 3, 1950.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 27,900 ft^3/s (790 m^3/s) July 28, elevation, 506.50 ft (154.381 m); minimum daily discharge, 1,980 ft^3/s (56.1 m^3/s) Feb. 17, 22, 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11800	7850	6570	5630	6780	15300	23700	13400	17700	20400	18100	16100
2	10900	7630	4070	5580	6460	15000	18700	14300	18000	19400	18200	17600
3	10800	8110	6550	5630	6160	15500	18400	15900	17200	20200	18300	18100
4	10700	7240	6300	4040	6610	10300	18700	15600	17000	20400	20200	18000
5	10400	7650	7000	3700	7260	11700	18800	15100	19800	20400	20300	18300
6	10400	7650	6590	3620	7720	16200	19000	14500	21100	20500	19300	17700
7	10300	6300	7500	4710	8410	16600	21000	17300	22100	19600	20200	16800
8	10200	5760	7520	6300	10100	20000	20800	15800	19200	18500	20500	17800
9	10100	7130	5650	5320	11600	19700	20800	18800	15000	18600	20800	17900
10	10100	7130	6480	3490	9230	15100	19800	19800	17100	16500	20600	18600
11	10100	6040	7260	5250	10600	8250	21800	18800	17700	20000	20800	18700
12	9220	6760	7410	4820	11100	8140	23500	20800	23800	19900	20300	19200
13	9080	6820	7100	4990	7240	12300	23000	16800	21800	19900	20400	19000
14	8240	6320	7950	5630	4230	17200	23200	17700	21300	21400	21000	17200
15	9340	6890	7740	3490	3490	17100	23000	16800	21900	22300	19900	17200
16	7680	7810	6850	5400	2010	15200	23900	16100	21100	21400	21600	17600
17	9630	8310	8360	3880	1980	15000	24100	18600	21100	21200	20200	16300
18	8660	5940	8400	5220	2220	15700	24100	15700	21400	21500	20700	16100
19	10200	7410	8220	5680	2000	20200	24100	16000	22800	21500	20800	16400
20	11200	6300	5560	6500	4280	18100	21800	17600	20000	21500	20400	15100
21	9370	6970	3380	7450	2020	16100	23000	16400	19000	21500	20900	16300
22	9390	7190	6060	7500	1980	15500	22100	17300	18100	21400	21000	15300
23	8120	7830	5540	8560	1980	15500	21000	17300	21500	19600	21000	16100
24	7580	8150	5470	7710	1990	18100	19000	17700	23000	19800	18900	16300
25	7480	6220	5480	8750	1990	17400	20800	17700	23800	20100	20300	15900
26	8910	8060	6590	9210	5750	17600	21200	16900	24400	19800	20600	15400
27	8530	7920	5620	8680	6880	18400	19300	17700	23500	20100	20600	15400
28	7600	6070	5020	8960	8490	19000	19300	17900	25300	19800	21100	14800
29	8620	6850	5890	5880	13900	18600	15100	18500	25100	15900	19700	13000
30	7130	5450	5010	4000	---	17200	15000	19000	23700	15600	17100	14800
31	7310	---	5890	5940	---	19100	---	18700	---	16300	16100	---
TOTAL	289090	211760	199030	181520	174460	495090	628000	530500	624500	615000	619900	503000
MEAN	9325	7059	6420	5855	6016	15970	20930	17110	20820	19840	20000	16770
MAX	11800	8310	8400	9210	13900	20200	24100	20800	25300	22300	21600	19200
MIN	7130	5450	3380	3490	1980	8140	15000	13400	15000	15600	16100	13000
AC-FT	573400	420000	394800	360000	346000	982000	1246000	1052000	1239000	1220000	1230000	997700

CAL YR 1979 TOTAL 4053580 MEAN 11110 MAX 19400 MIN 1940 AC-FT 8040000
WTR YR 1980 TOTAL 5071850 MEAN 13860 MAX 25300 MIN 1980 AC-FT 10060000

09423000 COLORADO RIVER BELOW DAVIS DAM, AZ-NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1949 to October 1969, April 1970 to current year.
CHEMICAL ANALYSES AND SPECIFIC CONDUCTANCES: July to October 1969 and April 1970 to current year, monthly.
WATER TEMPERATURES: March 1949 to June 1969, variable frequency of measurement; July to October 1969 and April 1970 to current year, monthly.

EXTREMES MEASURED FOR PERIOD OF RECORD SINCE JULY 1969.--
SPECIFIC CONDUCTANCES: Maximum, 1,290 micromhos Jan. 12, 1971; minimum, 900 micromhos Dec. 14, 1970.
WATER TEMPERATURES: Maximum, 21.5°C Sept. 21, 1969; minimum, 8.0°C Feb. 1, 1979.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)
OCT 01...	0950	13700	1100	7.7	17.0	320	79	29	110	2.7	5.7
NOV 01...	1450	10700	1120	8.0	17.0	310	75	29	100	2.5	5.7
DEC 03...	1445	4990	1120	7.8	17.0	320	80	29	110	2.7	5.3
JAN 02...	1030	6700	1120	7.9	10.5	320	78	30	110	2.7	5.4
FEB 01...	1200	8130	1110	7.9	11.0	320	79	29	110	2.7	5.0
MAR 04...	0900	14300	1120	8.2	10.0	320	80	30	86	2.1	4.7
APR 01...	0800	24400	1120	8.2	11.0	330	84	30	110	2.6	5.2
MAY 01...	0815	15900	1110	7.8	14.0	320	82	29	110	2.7	5.3
JUN 02...	1330	23800	1140	--	18.0	350	86	32	110	2.6	5.5
JUL 01...	1700	24800	1120	7.9	19.0	330	82	30	110	2.6	5.6
AUG 01...	0845	13300	1120	8.0	--	340	85	31	110	2.6	6.0
SEP 02...	1300	26400	1130	7.9	19.0	330	81	30	110	2.7	5.5

DATE	ALKALINITY FIELD (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)
OCT 01...	120	300	90	.3	8.5	647	696	23900	.33	160	10
NOV 01...	120	290	92	.4	8.7	726	674	21000	.17	160	<10
DEC 03...	120	300	92	.3	8.4	745	698	10000	.14	130	<10
JAN 02...	170	250	98	.4	8.2	752	683	13600	.21	190	<10
FEB 01...	120	290	90	.3	8.2	696	685	15300	.17	130	<10
MAR 04...	130	290	93	.3	8.7	738	671	28500	.11	120	20
APR 01...	130	300	88	.4	9.1	723	705	47600	.09	160	60
MAY 01...	130	290	90	.4	8.3	729	695	31300	.27	140	30
JUN 02...	140	300	98	.3	8.8	733	726	47100	.23	140	<10
JUL 01...	130	310	94	.9	9.0	752	721	50400	.20	190	<10
AUG 01...	130	310	98	.5	9.1	744	729	26700	.21	150	<10
SEP 02...	110	310	98	.5	8.4	791	710	56400	.17	120	<10

SPRING VALLEY

10243700 CLEVE CREEK NEAR ELY, NV

LOCATION.--Lat 39°12'50", long 114°32'20", in NW¼ sec.34, T.16 N., R.66 E., White Pine County, Hydrologic Unit 16060008, on right bank 2 mi (3.2 km) downstream from North Fork, 4 mi (6.4 km) southwest of Cleveland Ranch headquarters, and 18 mi (29.0 km) east of Ely.

DRAINAGE AREA.--31.8 mi^2 (82.4 km^2).

PERIOD OF RECORD.--June 1914 to December 1916 (published as Cleveland Creek near Osceola), October 1959 to September 1967, October 1976 to current year; crest-stage partial-record station October 1967 to September 1976.

GAGE.--Water-stage recorder. Altitude of gage is 6,200 ft (1,890 m), approximately from topographic map. Oct. 1, 1967 to Sept. 30, 1967 crest-stage gage at same site and datum.

REMARKS.--Records good except those for winter months, which are poor. No diversion above station. Practically entire flow diverted for irrigation by Cleveland Ranch below station.

AVERAGE DISCHARGE.--14 years (1915-16, 1960-67, 1977-80), 9.50 ft^3/s (0.269 m^3/s), 6,880 acre-ft/yr (8.48 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 125 ft^3/s (3.54 m^3/s) June 13, 1967; maximum gage height, 3.86 ft (1.177 m), Jan. 2, 1979 (backwater from ice); minimum discharge, 2.3 ft^3/s (0.065 m^3/s) Feb. 27, 1960.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 20 ft^3/s (0.57 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Apr. 21	0400	25	0.71	2.61	0.796
May 23	2200	*67	1.90	3.22	0.981
Sep. 7	1800	20	0.57	2.54	0.774

Minimum daily discharge, 5.2 ft^3/s (0.147 m^3/s) Jan. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.8	7.5	7.1	6.5	5.5	8.4	6.8	19	33	24	12	9.9
2	6.8	7.5	7.1	6.4	6.0	8.2	6.2	19	34	23	12	9.7
3	6.8	7.8	7.1	6.4	6.1	8.7	6.5	19	33	21	12	9.6
4	6.8	7.8	7.1	6.6	6.2	8.2	6.3	22	33	19	11	9.6
5	6.8	7.8	7.1	6.4	6.1	8.4	6.4	24	35	18	11	9.6
6	6.8	7.5	7.1	6.4	6.2	9.0	6.4	28	36	17	11	11
7	6.4	7.5	7.1	6.3	5.9	8.9	6.1	29	37	18	11	15
8	6.6	7.5	7.1	6.3	5.9	9.1	6.3	29	37	17	11	12
9	6.6	7.5	6.8	6.5	6.1	9.5	7.2	30	41	17	11	12
10	6.5	7.5	6.8	6.2	6.1	9.4	8.0	33	47	16	11	12
11	6.5	7.5	6.4	6.6	5.5	9.7	8.2	41	51	15	10	12
12	6.6	7.5	6.3	6.8	5.5	9.6	7.8	40	53	15	9.9	12
13	6.7	7.5	6.4	7.0	5.5	9.4	8.4	39	53	15	10	12
14	6.8	7.5	6.7	9.6	5.6	9.3	9.3	40	52	15	10	11
15	6.8	7.1	7.1	7.1	5.5	9.1	11	42	47	15	10	11
16	6.9	7.1	7.1	6.7	5.6	8.8	12	43	43	15	10	11
17	7.1	7.1	7.1	6.4	5.7	8.7	15	42	42	15	9.8	10
18	7.1	7.5	7.1	6.4	10	8.6	16	42	41	14	9.7	10
19	7.2	7.1	7.1	6.1	11	8.3	19	40	41	15	11	10
20	10	7.1	7.1	6.7	9.8	8.1	22	42	39	14	10	10
21	7.7	6.8	7.2	7.5	9.1	8.2	24	47	37	14	9.5	10
22	7.4	6.7	7.1	7.7	8.4	7.6	22	55	36	15	9.8	10
23	7.4	6.3	6.8	8.7	7.9	7.5	19	62	33	15	9.9	10
24	7.5	6.6	7.1	6.1	7.8	7.6	17	62	31	14	9.7	10
25	7.1	6.9	7.1	5.8	7.9	7.1	16	58	28	14	9.9	9.7
26	7.1	6.7	6.9	5.8	8.1	7.1	16	52	26	14	10	9.7
27	7.1	6.4	6.6	5.8	8.6	6.8	17	47	24	14	9.7	9.5
28	7.1	6.1	6.5	5.5	9.1	6.7	18	42	23	13	9.5	9.5
29	7.5	6.4	6.4	5.6	8.7	6.6	19	38	21	13	10	9.4
30	7.5	6.8	6.5	5.6	---	6.8	21	37	22	13	10	9.5
31	7.5	---	6.5	5.2	---	6.5	---	35	---	13	10	---
TOTAL	219.5	214.6	213.5	202.7	205.4	255.9	383.9	1198	1109	490	321.4	316.7
MEAN	7.08	7.15	6.89	6.54	7.08	8.25	12.8	38.6	37.0	15.8	10.4	10.6
MAX	10	7.8	7.2	9.6	11	9.7	24	62	53	24	12	15
MIN	6.4	6.1	6.3	5.2	5.5	6.5	6.1	19	21	13	9.5	9.4
AC-FT	435	426	423	402	407	508	761	2380	2200	972	637	628

CAL YR 1979 TOTAL 3899.5 MEAN 10.7 MAX 42 MIN 5.4 AC-FT 7730
WTR YR 1980 TOTAL 5130.6 MEAN 14.0 MAX 62 MIN 5.2 AC-FT 10180

10244720 FRANKLIN RIVER NEAR ARTHUR, NV

LOCATION.--Lat 40°49'25", long 115°08'10", in SE¼SW¼ sec.18, T.34 N., R.61 E., Elko County, Hydrologic Unit 16060007, in Humboldt National Forest, on right bank 1 mi (2 km) above Horse Creek and 3.5 mi (5.6 km) northeast of Arthur.

DRAINAGE AREA.--10.3 mi^2 (26.7 km^2).

PERIOD OF RECORD.--August 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 6,567.30 ft (2,001.713 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter months and period of no gage height record, Nov. 2 to Dec. 12, which are poor. No diversion above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--16 years, 11.5 ft^3/s (0.326 m^3/s), 8,330 acre-ft/yr (10.3 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 197 ft^3/s (5.58 m^3/s) June 6, 1975, gage height, 2.79 ft (0.850 m), from rating curve extended above 106 ft^3/s (3.00 m^3/s); minimum daily, 0.62 ft^3/s (0.018 m^3/s) Aug. 2, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 60 ft^3/s (1.70 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 6	1900	*108	3.06	2.57	0.783
May 21	2200	95	2.69	2.49	0.759
June 10	2200	105	2.97	*2.59	0.789

Minimum discharge, 1.1 ft^3/s (0.031 m^3/s) Oct. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	1.9	2.0	1.5	1.7	2.1	2.2	23	59	45	8.0	2.0
2	1.4	1.8	2.1	1.5	1.7	2.1	2.2	28	60	42	7.2	1.8
3	1.4	2.0	2.1	1.6	1.8	2.1	2.2	38	65	45	6.4	1.6
4	1.4	2.2	2.1	1.6	1.8	2.1	2.5	48	65	40	6.1	1.5
5	1.4	2.1	2.1	1.6	2.2	2.1	2.8	74	64	35	5.8	1.4
6	1.4	2.1	2.0	1.6	1.9	2.6	2.6	85	64	33	5.4	1.5
7	1.4	2.1	2.0	1.7	1.8	2.3	2.6	83	63	28	5.2	2.1
8	1.4	2.1	2.0	1.6	1.8	2.1	2.8	76	70	27	4.9	3.2
9	1.3	2.1	2.0	1.6	1.7	2.0	3.9	74	80	26	4.7	3.7
10	1.3	2.1	1.9	1.9	1.8	2.1	4.0	66	82	25	4.8	3.5
11	1.3	2.1	1.8	1.8	2.0	2.1	3.9	61	90	22	4.4	4.0
12	1.3	2.1	1.5	2.8	1.8	2.1	4.5	57	85	20	4.1	3.5
13	1.3	2.1	1.5	4.1	1.8	2.0	5.7	58	82	19	4.1	3.0
14	1.3	2.0	1.6	3.8	1.8	2.0	7.1	61	72	18	3.9	2.6
15	1.5	2.1	1.7	2.4	1.8	2.0	9.0	60	62	17	3.9	2.4
16	1.6	2.0	1.7	2.1	1.8	2.0	10	59	63	17	4.3	2.2
17	1.5	2.0	1.6	2.0	1.8	2.0	13	55	68	16	3.7	2.1
18	1.5	2.0	1.5	2.0	2.3	2.0	15	55	71	15	3.7	2.0
19	2.6	1.8	1.6	2.0	2.1	2.0	16	60	74	15	3.3	1.9
20	2.3	1.8	1.4	2.0	2.2	2.1	20	73	69	14	3.2	2.1
21	2.0	1.8	1.4	2.1	2.1	2.2	18	84	65	13	3.0	1.9
22	2.0	1.9	1.4	2.1	2.1	2.2	17	89	62	13	2.9	1.9
23	2.0	2.0	1.4	2.1	2.0	2.3	19	88	56	12	2.8	2.0
24	2.0	2.0	1.4	1.9	2.0	2.3	18	72	51	12	2.7	2.0
25	1.8	2.1	1.6	1.8	2.1	2.2	17	64	48	11	2.6	1.8
26	2.0	2.0	1.6	2.0	2.1	2.2	19	57	48	11	2.5	1.7
27	1.8	1.8	1.6	1.8	2.5	2.2	23	55	43	9.7	2.3	1.7
28	1.7	1.8	1.5	1.8	2.4	2.2	23	56	41	9.5	2.2	1.8
29	1.7	1.8	1.5	1.8	2.2	2.3	24	57	41	9.3	2.0	1.8
30	1.7	1.9	1.5	1.7	---	2.3	24	58	43	9.0	2.0	1.7
31	2.1	---	1.5	1.7	---	2.2	---	59	---	8.4	2.1	---
TOTAL	50.8	59.6	52.6	62.0	57.1	66.5	334.0	1933	1914	636.9	124.2	66.4
MEAN	1.64	1.99	1.70	2.00	1.97	2.15	11.1	62.4	63.8	20.5	4.01	2.21
MAX	2.6	2.2	2.1	4.1	2.5	2.6	24	89	90	45	8.0	4.0
MIN	1.3	1.8	1.4	1.5	1.7	2.0	2.2	23	41	8.4	2.0	1.4
AC-FT	101	118	104	123	113	132	662	3830	3800	1260	246	132

CAL YR 1979 TOTAL 3689.4 MEAN 10.1 MAX 76 MIN 1.3 AC-FT 7320
WTR YR 1980 TOTAL 5357.1 MEAN 14.6 MAX 90 MIN 1.3 AC-FT 10630

10244745 OVERLAND CREEK NEAR RUBY VALLEY, NV

LOCATION.--Lat 40°27'30", long 115°23'30", in SE¼SE¼ sec.23, T.30 N., R.58 E., Elko County, Hydrologic Unit 16060007, on left bank at mouth of canyon, 0.1 mi (0.2 km) upstream from Humboldt National Forest boundary, 2.2 mi (3.6 km) north of Ruby Valley Post Office, and 32 mi (51 km) southeast of Elko.

DRAINAGE AREA.--9 mi^2 (23 km^2).

PERIOD OF RECORD.--April to November 1917, March to June 1918, September 1918 (fragmentary), August 1959 to September 1967, October 1967 to September 1976 (operated as a partial-record site), October 1976 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,450 ft (1,970 m), from topographic map. Prior to Aug. 23, 1959, at site about 0.1 mi (0.2 km) downstream at different datum.

REMARKS.--Records good except those for winter months and period of no gage-height record, Jan. 20 to Apr. 4, which are fair. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--12 years (1959-67, 1977-80), 11.8 ft^3/s (0.334 m^3/s), 8,550 acre-ft/yr (10.5 hm^3).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 152 ft^3/s (4.30 m^3/s) June 11, 1962, gage height, 2.23 ft (0.680 m); maximum gage height, 3.31 ft (1.009 m) Jan. 13, 1963 (backwater from ice); minimum discharge, 0.4 ft^3/s (0.011 m^3/s) Dec. 25, 1962, but may have been less during periods of ice effects.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 50 ft^3/s (1.42 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 6	1700	*110	3.12	1.98	0.604	June 11	1700	103	2.92	1.94	0.591
May 22	2100	88	2.49	1.85	0.564	June 19	1700	94	2.66	1.89	0.576

Minimum daily discharge, 1.2 ft^3/s (0.034 m^3/s) Sept. 5, 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	2.4	2.6	2.4	5.0	6.0	5.5	58	45	58	12	1.7
2	1.3	2.4	2.7	2.4	5.0	5.8	5.4	59	51	53	11	1.5
3	1.3	2.4	2.7	2.4	5.0	5.8	5.4	70	50	54	8.8	1.4
4	1.3	2.7	2.9	2.4	5.3	5.8	5.1	86	50	51	8.4	1.4
5	1.3	2.6	2.9	2.4	5.6	6.0	5.1	96	50	44	7.1	1.2
6	1.3	2.6	2.9	2.4	5.2	7.2	5.1	98	48	40	6.2	1.2
7	1.3	2.6	2.9	2.3	5.2	6.4	5.1	85	50	37	5.6	2.9
8	1.3	2.4	3.0	2.4	6.2	5.8	5.1	76	54	36	5.3	3.9
9	1.3	2.6	3.2	2.4	5.9	5.6	5.9	69	64	34	5.1	4.4
10	1.3	2.4	3.0	2.4	5.4	5.8	6.4	61	80	34	4.6	4.4
11	1.4	2.4	2.8	3.4	5.2	5.8	6.8	54	93	31	4.6	6.2
12	1.4	2.4	2.6	10	5.2	5.8	8.0	48	90	30	3.9	4.8
13	1.3	2.3	2.7	13	5.1	5.6	10	46	79	28	3.9	3.9
14	1.3	2.4	2.6	13	5.1	5.6	13	44	70	27	3.7	3.3
15	1.5	2.6	2.6	8.0	5.1	5.6	15	44	64	25	3.7	2.9
16	1.5	2.4	2.7	6.4	5.1	5.6	18	43	64	24	3.9	2.8
17	1.5	2.4	2.7	5.6	5.2	5.6	22	41	70	23	3.3	2.6
18	1.9	2.3	2.7	5.1	5.9	5.6	27	42	79	22	3.1	2.4
19	9.5	2.3	2.9	5.1	5.6	5.7	32	45	85	21	4.8	2.3
20	3.7	2.2	2.9	5.4	5.6	5.9	37	52	85	20	3.7	2.4
21	2.9	2.2	2.9	5.5	5.6	6.1	39	65	79	19	2.9	2.4
22	2.6	2.2	2.9	5.3	5.6	6.3	37	77	73	18	2.4	2.4
23	2.6	2.3	2.7	5.4	5.6	6.5	36	80	68	17	2.3	2.3
24	2.6	2.4	2.7	5.0	5.6	6.4	34	70	62	16	2.1	2.1
25	2.6	2.3	2.7	5.0	5.6	6.3	34	60	60	15	2.1	1.8
26	2.7	2.2	2.7	5.2	5.6	6.2	36	52	59	14	2.1	1.8
27	2.6	2.2	2.6	5.0	6.6	6.2	42	47	55	13	1.8	1.7
28	2.6	2.2	2.5	5.0	6.4	6.3	51	45	51	13	1.7	1.5
29	2.4	2.3	2.4	5.0	6.2	6.5	55	44	51	13	1.6	1.5
30	2.4	2.4	2.4	5.0	---	6.4	59	43	55	13	1.7	1.5
31	2.6	---	2.4	4.9	---	6.3	---	43	---	12	1.8	---
TOTAL	66.7	71.5	84.9	155.2	159.7	186.5	665.9	1843	1934	855	135.2	76.6
MEAN	2.15	2.38	2.74	5.01	5.51	6.02	22.2	59.5	64.5	27.6	4.36	2.55
MAX	9.5	2.7	3.2	13	6.6	7.2	59	98	93	58	12	6.2
MIN	1.3	2.2	2.4	2.3	5.0	5.6	5.1	41	45	12	1.6	1.2
AC-FT	132	142	168	308	317	370	1320	3660	3840	1700	268	152

CAL YR 1979 TOTAL 5527.9 MEAN 15.1 MAX 147 MIN 1.3 AC-FT 10960
WTR YR 1980 TOTAL 6234.2 MEAN 17.0 MAX 98 MIN 1.2 AC-FT 12370

10244950 STEPTOE CREEK NEAR ELY, NV
(Hydrologic bench-mark station)

LOCATION.--Lat 39°12'05", long 114°41'15", in SW¼SW¼ sec.32, T.16 N., R.65 E., White Pine County, Hydrologic Unit 16060008, in Humboldt National Forest, on left bank 0.1 mi (0.2 km) downstream from Clear Creek, 0.8 mi (1.3 km) upstream from Cave Creek, and 11 mi (18 km) east-southeast of Ely.

DRAINAGE AREA.--11.1 mi^2 (28.7 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1966 to current year.

GAGE.--Water-stage and thermograph recorders. Altitude of gage is 7,440 ft (2,268 m), from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--14 years, 7.03 ft^3/s (0.199 m^3/s) 5,090 acre-ft/yr (6.28 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 37 ft^3/s (1.05 m^3/s) June 16, 1978, gage height, 2.69 ft (0.820 m); maximum gage height, 2.73 ft (0.832 m) June 19, 1967; minimum discharge, 2.0 ft^3/s (0.057 m^3/s) Dec. 22, 1966, Mar. 3, 1973.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 28 ft^3/s (0.79 m^3/s) June 18, gage height, 2.56 ft (0.780 m); minimum daily, 3.1 ft^3/s (0.088 m^3/s) Jan. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.2	5.6	4.1	3.7	3.7	3.6	3.9	11	15	26	13	9.0
2	5.2	5.5	4.1	3.7	3.7	3.8	4.0	11	15	25	13	8.9
3	5.4	5.5	4.1	3.7	3.7	3.8	4.1	11	15	25	12	8.6
4	5.4	5.5	4.1	3.7	3.7	3.8	4.1	11	15	24	12	8.5
5	5.4	5.3	4.1	3.5	3.7	3.5	4.2	11	15	24	12	8.4
6	5.4	5.3	4.1	3.5	3.5	3.4	4.2	13	17	24	12	8.4
7	5.4	5.3	4.1	3.5	3.4	3.8	4.2	14	17	23	12	8.9
8	5.4	5.1	4.1	3.5	3.4	3.6	4.2	13	18	22	11	8.4
9	5.5	5.1	4.1	3.7	3.5	3.7	4.6	14	20	22	11	8.3
10	5.5	5.1	4.1	3.7	3.5	3.7	4.8	14	22	21	11	8.4
11	5.6	5.1	3.6	3.5	3.7	3.8	4.9	14	25	21	11	8.3
12	5.6	5.1	3.7	3.7	3.8	3.7	5.4	14	26	20	11	8.0
13	5.6	5.1	4.1	3.5	3.7	3.6	5.8	14	27	20	11	7.8
14	5.6	4.9	4.1	3.7	3.7	3.7	6.1	14	27	19	11	7.7
15	5.8	4.9	4.1	3.5	3.7	3.7	6.6	15	27	18	11	7.7
16	5.8	4.9	4.0	3.5	3.7	3.5	7.2	16	26	18	11	7.6
17	5.7	4.9	3.9	3.5	3.7	3.4	7.9	16	27	17	10	7.4
18	5.7	4.9	3.9	3.5	3.9	3.6	8.5	16	27	17	10	7.4
19	5.7	4.6	3.9	3.3	3.9	3.6	9.2	16	27	16	11	7.4
20	6.0	4.1	3.9	3.1	3.7	3.7	11	17	27	16	10	7.4
21	6.0	4.1	3.9	3.5	3.5	3.6	12	19	28	15	10	7.3
22	5.8	4.4	3.9	3.4	3.4	3.7	11	20	27	15	9.9	7.3
23	5.8	4.9	3.7	3.5	3.5	3.8	11	21	27	15	9.9	7.2
24	5.8	4.7	3.9	3.7	3.4	3.8	10	20	27	14	9.5	7.2
25	5.8	4.7	3.9	3.7	3.5	3.6	9.8	19	26	14	9.6	7.3
26	5.6	4.4	3.8	3.7	3.7	3.7	10	19	26	14	9.5	7.3
27	5.6	4.1	3.7	3.8	3.8	3.7	11	18	26	14	9.4	7.2
28	5.6	4.1	3.5	3.8	3.7	3.7	11	17	26	14	9.3	7.2
29	5.6	4.2	3.7	3.7	3.7	3.9	11	17	25	14	9.2	7.1
30	5.5	4.1	3.7	3.7	---	4.0	11	16	26	14	9.1	7.0
31	5.6	---	3.7	3.8	---	3.9	---	16	---	13	9.1	---
TOTAL	173.8	145.5	121.6	111.3	105.5	114.4	222.7	477	699	574	330.5	234.6
MEAN	5.61	4.85	3.92	3.59	3.64	3.69	7.42	15.4	23.3	18.5	10.7	7.82
MAX	6.0	5.6	4.1	3.8	3.9	4.0	12	21	28	26	13	9.0
MIN	5.2	4.1	3.5	3.1	3.4	3.4	3.9	11	15	13	9.1	7.0
AC-FT	345	289	241	221	209	227	442	946	1390	1140	656	465

CAL YR 1979 TOTAL 2402.7 MEAN 6.58 MAX 18 MIN 3.5 AC-FT 4770
WTR YR 1980 TOTAL 3309.9 MEAN 9.04 MAX 28 MIN 3.1 AC-FT 6570

10244950 STEPTOE CREEK NEAR ELY, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1966 to current year.
CHEMICAL ANALYSES AND SPECIFIC CONDUCTANCES: March 1968 to current year, monthly.
BIOLOGICAL DATA: May 1975 to August 1977, twice-yearly; April 1978 to current year, monthly (seasonal).
MICROBIOLOGICAL DATA: October 1974 to current year, monthly.
WATER TEMPERATURES: October 1966 to current year, continuous.
SEDIMENT DATA: February 1968 to September 1975, monthly; October 1975 to September 1977, occasionally (at times of noticeable turbidity or high discharge); October 1977 to current year, monthly.

INSTRUMENTATION.--Temperature recorder since October 1966.

REMARKS.--Temperature recorder malfunctioned from Nov. 28 to Dec. 19.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 403 micromhos May 18, 1975; minimum, 218 micromhos June 22, 1978.
PHYTOPLANKTON: Maximum, 590 cells/mL July 23, 1980; minimum, <1 cells/mL May 19, 1978, May 22, 1979, June 25, Aug. 19, and Sept. 16, 1980.
FECAL STREPTOCOCCI: Maximum, 1,400 colonies/100 mL (non-ideal colony count) Feb. 23, 1977; minimum, less than 2 colonies/100 mL Apr. 21 and Dec. 22, 1976, Jan. 30 and Dec. 19, 1979, Mar. 20 and Apr. 24, 1980.
WATER TEMPERATURES: Maximum, 11.0°C on several days in May 1968, July 31 to Sept. 9, 1969, and July 17, 1979; minimum, 2.5°C Dec. 9, 1972.
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 810 mg/L May 18, 1975; minimum, 3 mg/L Aug. 21, 1973, Aug. 20 and Oct. 1, 1974, and Nov. 28, 1979.

EXTREMES FOR CURRENT YEAR (MEASUREMENTS AT LEAST ONCE-DAILY).--
WATER TEMPERATURES: Maximum, 10.0 on several days in Apr., May, July, and Aug.; minimum, 4.0°C on several days in Oct., Nov., Jan. and Mar.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS (MG/L AS CACO3)
OCT 24...	1435	5.8	310	8.6	7.0	.30	8.8	57	<2	K12	160
NOV 28...	1205	3.7	327	8.4	5.0	.60	10.0	66	<2	K10	180
DEC 19...	1050	4.3	306	8.7	5.5	.40	9.3	K4	<2	<2	180
JAN 23...	1445	3.7	334	8.6	5.5	1.4	10.0	K10	<2	K16	170
FEB 21...	1540	3.5	326	8.6	5.5	.40	9.4	<2	<2	K12	190
MAR 20...	0935	3.3	325	8.6	5.5	.80	9.8	40	<2	<2	170
APR 24...	1130	10	356	8.1	7.5	10	8.7	77	<2	<2	200
MAY 21...	1500	19	374	8.5	9.0	6.1	8.7	83	<2	K3	200
JUN 25...	1710	26	323	8.4	8.5	1.5	9.0	K20	<2	K7	160
JUL 23...	1445	14	312	8.5	9.0	.90	8.7	160	K4	K25	160
AUG 19...	0835	11	334	8.5	7.0	1.0	9.2	270	83	150	170
SEP 16...	1310	7.7	312	8.4	7.5	.60	8.9	220	K5	K22	160

K: NON-IDEAL COLONY COUNT.

10244950 STEPTOE CREEK NEAR ELY, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)
OCT 24...	1435	49	10	1.7	.1	.6	200	7	176
NOV 28...	1205	52	11	1.9	.1	.5	210	2	176
DEC 19...	1050	53	11	1.8	.1	.5	200	10	181
JAN 23...	1445	51	10	1.9	.1	.5	210	6	182
FEB 21...	1540	57	11	1.7	.1	.6	220	6	190
MAR 20...	0935	53	10	1.7	.1	.5	200	8	177
APR 24...	1130	64	8.9	2.2	.1	.6	--	--	--
MAY 21...	1500	67	7.8	2.3	.1	.7	230	9	200
JUN 25...	1710	54	6.7	1.8	.1	.6	190	4	162
JUL 23...	1445	52	8.4	1.8	.1	.4	180	5	170
AUG 19...	0835	53	9.4	1.7	.1	.7	200	3	169
SEP 16...	1310	49	9.7	1.7	.1	.4	190	4	162

DATE	TIME	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)
OCT 24...	1435	11	1.2	.1	6.7	164	186	2.57
NOV 28...	1205	11	1.1	.1	6.8	174	190	1.74
DEC 19...	1050	7.4	.8	.0	7.2	171	191	1.99
JAN 23...	1445	7.5	1.8	.1	7.0	191	190	1.91
FEB 21...	1540	6.1	.9	.1	5.9	175	198	1.65
MAR 20...	0935	7.1	.9	.0	6.7	183	187	1.63
APR 24...	1130	11	1.2	.1	8.0	205	--	5.53
MAY 21...	1500	15	1.2	.1	8.4	215	206	11.0
JUN 25...	1710	7.6	.2	.0	7.1	196	177	13.8
JUL 23...	1445	7.1	.8	.2	7.0	172	180	6.50
AUG 19...	0835	7.8	1.4	.1	6.7	189	183	5.61
SEPT 16...	1310	8.9	2.1	.1	6.8	176	177	3.66

10244950 STEPTOE CREEK NEAR ELY, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, DISSOLVED (MG/L AS N)
OCT										
24...	1435	.07	.010	.12	.000	.000	.35	.32	.43	.44
NOV										
28...	1205	.13	.000	.12	.010	.000	--	.45	--	.57
DEC										
19...	1050	.16	.010	.16	.000	.030	.25	.19	.42	.38
JAN										
23...	1445	.16	.020	.16	.010	.000	.38	.39	.57	.55
FEB										
21...	1540	.15	.000	.14	.040	.040	.34	.16	.53	.34
MAR										
20...	0935	.13	.000	.13	.000	.000	.35	.38	.48	.51
APR										
24...	1130	.18	.000	.19	.040	.040	.52	.37	.74	.60
MAY										
21...	1500	.16	.010	.15	.000	.030	.34	.32	.51	.50
JUN										
25...	1710	--	.000	.19	.000	.000	.45	.38	--	.57
JUL										
23...	1445	.07	.000	.00	.010	.000	.42	.35	.50	.35
AUG										
19...	0835	.13	.010	.13	.000	.000	.23	.13	.37	.26
SEP										
16...	1310	.06	.000	.07	.000	.020	.21	.03	.27	.12

DATE	TIME	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED (MG/L AS C)
OCT							
24...	1435	.000	.010	--	7.5	--	--
NOV							
28...	1205	.000	.000	.000	5.2	--	--
DEC							
19...	1050	.000	.010	.000	--	3.8	.2
JAN							
23...	1445	.010	.010	.000	1.6	--	--
FEB							
21...	1540	.010	.020	.010	5.1	--	--
MAR							
20...	0935	.010	.010	.000	--	--	.1
APR							
24...	1130	.010	.010	.000	9.5	--	--
MAY							
21...	1500	.060	.010	.010	--	4.9	.7
JUN							
25...	1710	.000	--	.050	5.0	--	--
JUL							
23...	1445	.010	.020	.000	1.3	--	--
AUG							
19...	0835	.020	.020	.000	--	--	.4
SEP							
16...	1310	.030	.020	.010	3.2	--	--

10244950 STEPTOE CREEK NEAR ELY, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, TOTAL (UG/L AS BA)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM TOTAL (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, TOTAL (UG/L AS CO)	COBALT, DIS-SOLVED (UG/L AS CO)
DEC 19...	1050	3	2	300	50	--	0	<1	12	0	0	<3
FEB 21...	1540	--	--	--	--	--	--	--	--	--	--	--
MAR 20...	0935	2	2	--	40	--	0	<1	0	0	1	<3
APR 24...	1130	--	--	--	--	--	--	--	--	--	--	--
MAY 21...	1500	3	2	100	40	<1	0	1	0	0	2	0
JUN 25...	1710	2	2	--	40	--	1	<1	10	10	0	<3
JUL 23...	1445	--	--	--	--	--	--	--	--	--	--	--
AUG 19...	0835	3	2	100	50	--	5	2	0	--	0	4

DATE	COPPER, TOTAL (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L) AS MO)
DEC 19...	4	0	30	30	2	0	--	60	<1	.0	.0	--
FEB 21...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 20...	3	0	80	<10	3	0	--	10	1	.0	.0	--
APR 24...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 21...	6	0	500	30	5	2	8	20	10	.1	.0	<10
JUN 25...	5	4	190	<10	13	3	--	10	5	.2	.0	--
JUL 23...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 19...	3	0	120	10	3	3	--	--	6	.0	.0	--

DATE	NICKEL, TOTAL (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)	CYANIDE TOTAL (MG/L AS CN)
DEC 19...	1	0	0	0	0	0	--	--	10	4	--
FEB 21...	--	--	--	--	1	--	--	--	--	--	--
MAR 20...	2	0	0	0	0	0	--	--	10	<3	--
APR 24...	--	--	--	--	0	--	--	--	--	--	--
MAY 21...	12	0	0	0	0	0	98	<6.0	40	10	.00
JUN 25...	2	0	0	0	0	0	--	--	20	7	--
JUL 23...	--	--	--	--	9	--	--	--	--	--	--
AUG 19...	0	0	0	0	0	0	--	--	10	10	.01

10244950 STEPTOE CREEK NEAR ELY, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DISSOLVED (UG/L AS U)	URANIUM NATURAL SUSPENDED TOTAL (UG/L AS U)	URANIUM DISSOLVED, EXTRACTION (UG/L)	STRONTIUM 90 DISSOLVED (PCI/L)	STRONTIUM 90 SUSPENDED TOTAL (PCI/L)
OCT											
24...	1435	1.9	.4	1.8	.4	.08	1.3	.3	.47	1.7	.4

DATE	TIME	PCB TOTAL (UG/L)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	CHLORDANE, TOTAL (UG/L)	CHLORDANE, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOTTOM MATERIAL (UG/KG)
OCT											
24...	1435	.00	0	.00	.0	.0	0	.00	.0	.00	.0

DATE	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOTTOM MATERIAL (UG/KG)	DIAZINON, TOTAL (UG/L)	DIELDRIN TOTAL (UG/L)	DIELDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ENDOSULFAN, TOTAL (UG/L)	ENDOSULFAN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ETHION, TOTAL (UG/L)	HEPTACHLOR, TOTAL (UG/L)
OCT											
24...	.00	.0	.00	.00	.1	.00	.0	.00	.0	.00	.00

DATE	HEPTACHLOR, TOTAL IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE TOTAL (UG/L)	HEPTACHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOTTOM MATERIAL (UG/KG)	MALATHION, TOTAL (UG/L)	METHOXYCHLOR, TOTAL (UG/L)	METHYL PARATHION, TOTAL (UG/L)	METHYL TRITHION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	MIREX, TOTAL IN BOTTOM MATERIAL (UG/KG)
OCT											
24...	.0	.00	.0	.00	.1	.00	.00	.00	.00	.00	.0

DATE	PARATHION, TOTAL (UG/L)	PCN, TOTAL IN BOTTOM MATERIAL (UG/KG)	PERTHANE TOTAL (UG/L)	PERTHANE IN BOTTOM MATERIL (UG/KG)	TOXAPHENE, TOTAL (UG/L)	TOXAPHENE, TOTAL IN BOTTOM MATERIAL (UG/KG)	TOTAL TRITHION (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
OCT											
24...	.00	.0	.00	.00	0	0	.00	.00	.00	.00	.00

10244950 STEPTOE CREEK NEAR ELY, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE	NOV 28,79	MAR 20,80	MAY 21,80	JUN 25,80
TIME	1205	0935	1500	1710
TOTAL CELLS/ML	120	26	39	<1
DIVERSITY: DIVISION	1.3	0.0	0.0	0.0
.CLASS	1.3	0.0	0.0	0.0
..ORDER	1.5	0.0	0.0	0.0
...FAMILY	1.5	0.0	0.9	0.0
....GENUS	1.5	0.0	0.9	0.0

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...OOCYSTACEAE								
....CHLORELLA	10	9	--	-	--	-	--	-
..ZYGNEMATALES								
...DESMIDIACEAE								
....STAURASTRUM	--	-	--	-	--	-	--	-
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	5	4	--	-	--	-	--	-
..PENNALES								
...GOMPHONEMATACEAE								
....GOMPHONEMA	--	-	--	-	26#	67	--	-
...NAVICULACEAE								
....NAVICULA	40#	35	--	-	13#	33	--	-
...NITZSCHIACEAE								
....NITZSCHIA	--	-	26#	100	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..HORMOGONALES								
...OSCILLATORIACEAE								
....OSCILLATORIA	60#	52	--	-	--	-	--	-

DATE	JUL 23,80	AUG 19,80	SEP 16,80
TIME	1445	0835	1310
TOTAL CELLS/ML	590	<1	<1
DIVERSITY: DIVISION	0.3	0.0	0.0
.CLASS	0.3	0.0	0.0
..ORDER	0.3	0.0	0.0
...FAMILY	0.3	0.0	0.0
....GENUS	0.3	0.0	0.0

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)						
.CHLOROPHYCEAE						
..CHLOROCOCCALES						
...OOCYSTACEAE						
....CHLORELLA	--	-	--	-	--	-
..ZYGNEMATALES						
...DESMIDIACEAE						
....STAURASTRUM	13	2	--	-	--	-
CHRYSOPHYTA						
.BACILLARIOPHYCEAE						
..CENTRALES						
...COSCINODISCACEAE						
....CYCLOTELLA	--	-	--	-	--	-
..PENNALES						
...GOMPHONEMATACEAE						
....GOMPHONEMA	--	-	--	-	--	-
...NAVICULACEAE						
....NAVICULA	13	2	--	-	--	-
...NITZSCHIACEAE						
....NITZSCHIA	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
.CYANOPHYCEAE						
..HORMOGONALES						
...OSCILLATORIACEAE						
....OSCILLATORIA	570#	96	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

10244950 STEPTOE CREEK NEAR ELY, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PERIPHYTON

RETRIEVAL DATE	LENGTH OF EXPOSURE POLYETHYLENE STRIP (DAYS)	BIOMASS (G/M^2) DRY WEIGHT	BIOMASS (G/M^2) ASH WEIGHT	CHLOROPHYLL A (MG/M^2)	CHLOROPHYLL B (MG/M^2)
Jan 23	35	.320	.240	.910	.000
Jun 25	34	.787	.472	.640	.210
Sep 16	28	1.18	.709	.270	.000

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)
OCT 24...	1435	5.8	12	.19
NOV 28...	1205	3.7	3	.03
DEC 19...	1050	4.3	11	.13
JAN 23...	1445	3.7	11	.11
FEB 21...	1540	3.5	26	.25
MAR 20...	0935	3.3	14	.12
APR 24...	1130	10	93	2.5
MAY 21...	1500	19	74	3.8
JUN 25...	1710	26	18	1.3
JUL 23...	1445	14	22	.83
AUG 19...	0835	11	10	.30
SEP 16...	1310	7.7	4	.08

10244950 STEPTOE CREEK NEAR ELY, NV--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.5	7.0	5.0	4.0	---	---	6.0	5.5	6.0	5.0	6.0	5.0
2	9.0	7.5	5.5	4.5	---	---	5.5	5.0	6.0	5.5	6.0	5.5
3	8.5	7.0	6.0	5.0	---	---	5.5	5.0	6.5	6.0	5.5	5.0
4	8.5	7.5	5.0	5.0	---	---	5.5	5.0	6.0	6.0	6.0	5.0
5	8.5	7.0	5.0	4.5	---	---	6.0	5.5	6.0	5.0	5.5	4.0
6	8.0	6.5	5.5	4.5	---	---	6.0	6.0	6.5	5.0	5.5	5.0
7	8.0	6.5	5.5	5.0	---	---	6.0	5.5	6.5	6.0	5.5	5.0
8	8.0	6.5	5.5	5.0	---	---	6.0	5.5	6.5	5.5	6.0	4.5
9	8.0	6.5	5.0	4.5	---	---	6.0	6.0	6.5	5.5	6.0	5.0
10	8.0	6.5	5.0	4.0	---	---	6.0	6.0	6.5	5.5	6.0	5.0
11	8.0	6.5	5.5	5.0	---	---	6.0	5.0	6.5	5.5	6.0	5.0
12	8.0	6.5	5.5	5.5	---	---	---	---	6.5	5.5	6.0	5.0
13	7.5	6.5	5.5	5.0	---	---	---	---	6.5	5.5	6.0	5.0
14	7.5	6.5	5.5	5.0	---	---	---	---	6.5	6.5	6.0	5.0
15	7.5	6.0	5.5	5.0	---	---	6.5	6.0	7.0	6.5	6.5	5.0
16	7.5	6.0	5.5	5.0	---	---	6.5	6.0	7.0	6.5	6.0	5.0
17	7.0	6.5	5.5	5.5	---	---	6.5	6.0	7.5	6.5	6.5	4.5
18	6.5	6.0	5.5	5.0	---	---	6.0	5.5	6.5	6.5	5.5	5.0
19	6.5	6.0	5.0	5.0	5.5	5.0	6.0	5.5	7.0	6.5	6.0	5.0
20	6.5	5.5	5.5	5.0	5.0	5.0	6.0	5.0	6.5	6.0	6.5	5.0
21	6.0	5.0	---	---	5.0	5.0	6.0	5.5	6.5	5.0	5.5	5.0
22	6.5	5.0	5.0	4.5	5.0	5.0	6.0	5.0	6.0	5.0	6.0	4.5
23	6.5	5.0	5.0	5.0	5.5	4.5	6.0	5.0	5.5	5.0	6.5	5.0
24	6.5	5.5	5.0	5.0	5.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0
25	6.5	5.0	5.0	5.5	5.5	5.0	6.0	5.0	6.0	5.0	6.0	4.5
26	6.0	5.5	5.0	5.0	5.0	4.5	6.0	4.0	6.5	5.0	6.0	5.0
27	6.0	5.0	4.5	4.5	5.0	4.5	6.0	4.5	6.5	5.0	5.5	4.5
28	5.5	5.0	4.5	4.5	---	---	5.5	4.0	6.0	5.5	6.5	5.0
29	5.0	4.5	---	---	---	---	6.0	4.0	6.0	5.0	7.0	5.0
30	5.0	4.0	---	---	5.5	4.5	6.0	4.5	---	---	6.0	4.5
31	5.0	4.5	---	---	6.0	5.0	6.0	5.0	---	---	6.5	5.0
MONTH	9.0	4.0	6.0	4.0	6.0	4.5	6.5	4.0	7.5	5.0	7.0	4.0

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.0	5.0	8.5	6.5	8.5	6.5	7.0	7.0	9.0	8.0	8.5	6.5
2	6.5	5.0	9.0	6.5	8.0	7.0	8.0	7.5	9.0	8.0	8.5	7.0
3	7.0	5.0	9.0	6.5	9.0	6.5	8.5	7.0	9.0	7.5	8.5	7.0
4	7.5	5.5	9.5	6.5	9.5	6.5	8.5	7.0	9.0	7.5	8.5	7.0
5	6.5	5.5	9.0	7.0	9.5	6.5	8.5	7.0	9.0	7.5	8.5	7.0
6	7.5	5.5	8.5	7.0	9.0	6.5	8.5	7.0	9.0	7.5	8.0	7.0
7	7.5	5.0	8.0	6.5	9.5	6.5	8.0	7.5	9.0	7.5	8.0	7.5
8	8.0	5.5	9.5	6.5	9.5	7.0	8.5	7.5	9.0	7.5	8.5	7.5
9	8.0	6.0	7.5	6.0	9.5	7.0	8.5	7.0	9.5	8.0	8.0	7.0
10	8.5	5.5	6.5	6.0	9.5	7.0	8.5	7.0	10.0	8.0	8.0	7.5
11	8.0	5.0	7.0	6.0	9.0	7.0	8.0	7.0	10.0	8.0	8.0	7.5
12	8.5	5.0	7.0	6.0	8.5	6.5	8.5	7.0	10.0	8.5	8.5	7.0
13	8.5	5.0	8.5	6.0	8.5	6.5	8.5	7.0	10.0	9.0	8.5	7.0
14	8.5	5.5	8.0	7.0	8.0	6.5	8.5	7.0	10.0	8.5	8.5	7.0
15	9.0	6.0	9.0	6.5	8.5	6.5	8.5	7.0	9.0	8.5	8.5	7.0
16	9.5	6.0	8.5	6.5	9.0	7.0	9.5	8.0	10.0	8.5	8.0	7.0
17	10.0	6.0	10.0	6.0	8.5	7.0	9.5	8.0	10.0	8.5	8.0	6.5
18	10.0	6.0	9.5	7.0	8.5	7.0	9.5	8.0	10.0	8.5	8.0	7.0
19	10.0	6.5	10.0	7.0	8.5	7.0	9.5	8.0	8.5	7.0	8.0	6.5
20	9.5	6.5	10.0	7.0	8.5	7.0	9.5	8.0	8.5	7.0	7.5	6.0
21	7.5	6.5	9.5	7.0	8.5	7.0	9.5	8.0	9.0	7.0	7.5	6.0
22	7.5	7.0	8.0	7.5	8.5	7.0	9.0	8.0	8.5	7.0	7.5	6.0
23	8.0	6.5	8.0	7.0	8.5	7.0	9.5	8.0	8.5	7.0	7.5	6.0
24	9.0	6.0	7.5	6.0	8.5	6.5	10.0	8.0	8.5	7.0	8.0	6.0
25	10.0	6.0	8.0	6.0	8.5	6.5	9.5	8.0	8.0	7.0	8.5	7.0
26	9.5	6.0	9.5	6.0	8.5	7.0	9.5	8.5	8.5	7.0	8.0	7.0
27	9.0	6.5	9.0	6.5	8.0	6.5	10.0	8.0	8.5	7.0	8.5	7.0
28	8.5	6.5	8.0	6.5	8.0	6.5	9.0	8.0	8.5	6.5	8.5	7.0
29	8.0	6.5	8.5	7.0	9.0	7.0	9.0	8.0	8.5	7.0	8.5	6.5
30	7.0	6.0	8.0	7.0	7.5	7.0	9.0	8.0	8.0	6.5	8.5	7.0
31	---	---	8.5	6.5	---	---	9.0	8.0	8.5	6.5	---	---
MONTH	10.0	5.0	10.0	6.0	9.5	6.5	10.0	7.0	10.0	6.5	8.5	6.0
YEAR	10.0	4.0										

10245800 NEWARK VALLEY TRIBUTARY NEAR HAMILTON, NV

LOCATION.--Lat 39°25'00", long 115°37'52", in S¼NE¼ sec.23, T.18 N., R.56 E., White Pine County, Hydrologic Unit 16060006, on left bank above culvert on U.S. Highway 50, 3.5 mi (5.6 km) east of Pancake Summit, 14 mi (23 km) northwest of Hamilton, and 19 mi (31 km) east of Eureka.

DRAINAGE AREA.--157 mi^2 (407 km^2).

PERIOD OF RECORD.--Water year 1962 (annual maximum), August 1962 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Altitude of gage is 6,120 ft (1,865 m), from topographic map. October 1961 to August 1962, crest-stage gage at same site and datum.

REMARKS.--Records poor.

AVERAGE DISCHARGE.--18 years, 0.204 ft^3/s (0.0058 m^3/s), 148 acre-ft/yr (182,000 m^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 291 ft^3/s (8.24 m^3/s) Mar. 9, 1979, gage height, 6.70 ft (2.042 m), from high-water marks; no flow most of the time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 21 ft^3/s (0.59 m^3/s) time unknown, Sept. 7, gage height, 1.48 ft (0.451 m), no other peak above base of 10 ft^3/s (0.28 m^3/s); no flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.30	.00	.20	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.90
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.4
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.20	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.10	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.20	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	.00	.00	.00	.00	.10	.30	.00	.60	.00	.00	.00	2.30
MEAN	.000	.000	.000	.000	.003	.010	.000	.019	.000	.000	.000	.077
MAX	.00	.00	.00	.00	.10	.30	.00	.20	.00	.00	.00	1.4
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.2	.6	.00	1.2	.00	.00	.00	4.6

CAL YR 1979 TOTAL 668.50 MEAN 1.83 MAX 211 MIN .00 AC-FT 1330
WTR YR 1980 TOTAL 3.30 MEAN .009 MAX 1.4 MIN .00 AC-FT 6.5

10245900 PINE CREEK NEAR BELMONT, NV

LOCATION.--Lat 38°47'40", long 116°51'13", in NW¼SE¼ sec.13, T.16 N., R.45 E., Nye County, Hydrologic Unit 16060005, on right bank, 2.9 mi (4.7 km) west of Pine Creek Ranch, and 7.2 mi (11.6 km) north of Belmont, NV.

DRAINAGE AREA.--12.2 mi^2 (31.6 km^2).

PERIOD OF RECORD.--October 1977 to current year.

GAGE.--Water-stage recorder. Altitude of gage 7,560 ft (2,304 m) from topographic map.

REMARKS.--Records poor. No diversions above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 155 ft^3/s (4.39 m^3/s) June 9, 1978, gage height, 2.75 ft (0.838 m); minimum daily 0.56 ft^3/s (0.016 m^3/s) Nov. 20, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 48 ft^3/s (1.36 m^3/s) June 10, gage height, 2.21 ft (0.674 m); minimum daily 1.0 ft^3/s (0.028 m^3/s) Dec. 25 (result of freezeup).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	2.3	1.7	1.1	1.5	1.7	1.4	5.0	13	21	4.8	1.7
2	2.4	2.2	1.8	1.1	1.5	1.7	1.3	5.3	13	22	4.4	1.7
3	2.1	2.2	1.8	1.1	1.5	1.9	1.3	6.4	14	20	4.2	1.5
4	1.7	2.3	1.8	1.3	1.5	1.7	1.3	6.9	15	18	4.2	1.5
5	1.8	2.4	1.8	1.1	1.7	1.7	1.3	7.9	17	17	4.6	1.3
6	1.9	2.4	1.8	1.1	1.3	1.7	1.2	11	19	16	3.9	1.5
7	1.7	2.4	1.7	1.1	1.5	1.7	1.3	11	22	14	4.2	3.6
8	1.9	2.4	1.7	1.1	1.3	1.7	1.5	11	26	13	3.6	3.9
9	1.9	2.7	1.6	1.1	1.3	1.7	1.9	12	33	11	3.3	3.3
10	2.1	2.5	1.6	1.1	1.3	1.9	2.0	11	42	11	3.3	3.0
11	1.9	2.7	1.4	1.1	1.3	1.9	1.8	9.1	41	9.9	3.3	3.0
12	2.0	2.3	1.4	1.1	1.3	1.7	1.7	8.1	37	9.5	2.7	2.7
13	2.2	2.5	1.5	1.1	1.3	1.9	1.8	6.7	34	9.5	2.7	3.0
14	2.2	3.0	1.5	2.2	1.3	1.9	2.4	6.4	31	8.5	2.7	2.7
15	2.2	2.3	1.5	2.1	1.4	1.7	2.4	6.0	28	7.2	2.7	2.7
16	2.4	2.2	1.5	2.0	1.5	1.5	2.6	5.5	30	7.5	2.7	2.4
17	2.4	2.4	1.4	1.9	1.6	1.7	3.1	5.7	33	7.1	2.4	2.4
18	2.4	2.4	1.3	1.8	1.7	1.7	3.5	6.8	35	6.8	2.2	1.9
19	2.6	1.9	1.1	1.7	1.7	1.5	4.3	8.2	35	7.1	2.4	2.2
20	2.4	1.8	1.1	1.5	1.6	1.5	4.7	16	36	6.7	2.4	2.2
21	2.4	1.6	1.1	1.5	1.6	1.5	4.1	23	34	6.1	2.4	2.2
22	2.4	1.8	1.1	1.5	1.6	1.3	3.8	27	33	6.5	2.2	2.2
23	2.4	1.9	1.1	1.5	1.7	1.3	3.2	29	30	6.6	2.2	2.1
24	2.7	2.0	1.1	1.6	1.7	1.3	2.8	26	28	5.9	2.2	2.2
25	2.7	1.9	1.0	1.5	1.7	1.1	3.0	22	24	6.0	2.2	1.9
26	2.7	1.6	1.1	1.6	1.9	1.3	3.4	19	23	5.8	2.2	2.4
27	2.5	1.4	1.3	1.6	2.2	1.3	3.7	17	22	5.5	1.7	2.4
28	2.4	1.5	1.1	1.5	2.2	1.1	4.2	16	21	5.3	1.7	2.0
29	2.4	1.6	1.1	1.6	1.9	1.3	4.0	15	22	5.4	1.7	1.9
30	2.1	1.7	1.1	1.5	---	1.3	4.5	14	23	4.9	1.7	2.2
31	2.2	---	1.1	1.5	---	1.3	---	13	---	4.7	1.7	---
TOTAL	69.5	64.3	43.2	44.6	45.6	48.5	79.5	387.0	814	305.5	88.6	69.7
MEAN	2.24	2.14	1.39	1.44	1.57	1.56	2.65	12.5	27.1	9.85	2.86	2.32
MAX	2.7	3.0	1.8	2.2	2.2	1.9	4.7	29	42	22	4.8	3.9
MIN	1.7	1.4	1.0	1.1	1.3	1.1	1.2	5.0	13	4.7	1.7	1.3
AC-FT	138	128	86	88	90	96	158	768	1610	606	176	138

CAL YR 1979 TOTAL 2071.1 MEAN 5.67 MAX 36 MIN 1.0 AC-FT 4110
WTR YR 1980 TOTAL 2060.0 MEAN 5.63 MAX 42 MIN 1.0 AC-FT 4090

10245910 MOSQUITO CREEK NEAR BELMONT, NV

LOCATION.--Lat 38°48'22", long 116°40'43", in NW¼SW¼ sec.10, T.11 N., R.47 E., Nye County, Hydrologic Unit 16060005, 27.4 mi (44.1 km) east of Carvers on State Highway 8A, 59 mi (95 km) northeast of Tonopah and 17.9 mi (28.8 km) northeast of Belmont.

DRAINAGE AREA.--15.1 mi^2 (39.1 km^2).

PERIOD OF RECORD.--October 1977 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 7,200 ft (2,195 m), from topographic map.

REMARKS.--Records poor, no gage-height record, Apr. 15 to May 20. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 92 ft^3/s (2.61 m^3/s) June 7, 1978, gage height, 3.55 ft (1.082 m), minimum daily, 0.09 ft^3/s (0.003 m^3/s) Dec. 20, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 19 ft^3/s (0.54 m^3/s) June 11, gage height, 2.51 ft (0.765 m), minimum daily, 0.39 ft^3/s (0.011 m^3/s) Jan. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.87	.87	.75	.52	.46	.74	.83	2.3	13	8.8	2.6	1.3
2	.87	.85	.78	.49	.45	.66	.78	2.5	13	7.8	2.4	1.2
3	.85	.84	.78	.52	.44	.65	.63	2.8	14	7.3	2.3	1.2
4	.82	.84	.78	.52	.44	.66	.61	3.3	15	6.9	2.2	1.1
5	.85	.83	.78	.49	.45	.62	.62	3.7	15	6.6	2.2	1.1
6	.87	.84	.83	.46	.46	.62	.63	5.1	15	6.4	2.2	1.3
7	.87	.81	.83	.46	.52	.62	.83	5.2	16	5.9	2.1	1.7
8	.87	.81	.78	.46	.52	.70	.78	5.2	16	5.9	2.1	2.1
9	.90	.79	.78	.46	.63	.83	.74	5.5	17	5.6	2.1	2.0
10	.92	.80	.83	.46	.63	.83	.92	5.2	17	5.4	2.0	2.2
11	.87	.78	.70	.46	.59	.78	.97	4.3	18	5.1	1.9	1.9
12	.87	.76	.70	.49	.55	.83	.97	3.7	18	4.7	1.9	1.7
13	.87	.73	.69	.49	.55	.74	.97	3.3	18	4.4	1.9	1.6
14	.87	.70	.68	.59	.52	.72	.92	3.0	17	4.2	1.8	1.5
15	.87	.66	.67	.46	.49	.67	.92	2.7	17	4.1	1.8	1.4
16	.89	.60	.65	.52	.52	.74	1.2	2.6	16	3.8	1.7	1.4
17	.92	.67	.64	.49	.54	.83	1.4	2.7	15	3.6	1.6	1.3
18	.92	.74	.62	.49	.74	.66	1.7	3.0	14	3.4	1.5	1.3
19	.92	.70	.59	.52	.66	.74	2.0	3.5	13	3.3	1.6	1.3
20	.92	.65	.59	.55	.62	.74	2.2	6.6	13	3.3	1.5	1.3
21	.92	.57	.59	.55	.62	.78	2.0	7.6	12	3.1	1.5	1.3
22	.92	.66	.55	.55	.70	.70	1.8	8.9	12	3.2	1.4	1.2
23	.92	.72	.59	.55	.74	.66	1.5	11	11	3.4	1.4	1.2
24	.92	.78	.55	.43	.66	.70	1.3	11	10	3.2	1.4	1.2
25	.92	.72	.52	.43	.66	.70	1.4	13	9.7	3.2	1.4	1.2
26	.92	.67	.55	.43	.70	.87	1.6	13	9.5	2.9	1.4	1.2
27	.87	.60	.52	.41	.70	.78	1.8	13	9.1	2.8	1.3	1.1
28	.87	.65	.49	.39	.70	.87	1.9	13	8.8	2.7	1.3	1.1
29	.87	.69	.52	.43	.74	.83	1.9	13	8.4	2.7	1.3	1.1
30	.83	.73	.55	.46	---	.70	2.0	13	8.4	2.7	1.3	1.1
31	.82	---	.55	.46	---	.87	---	13	---	2.6	1.3	---
TOTAL	27.39	22.06	20.43	14.99	17.00	22.84	37.82	205.7	408.9	139.0	54.4	41.6
MEAN	.88	.74	.66	.48	.59	.74	1.26	6.64	13.6	4.48	1.75	1.39
MAX	.92	.87	.83	.59	.74	.87	2.2	13	18	8.8	2.6	2.2
MIN	.82	.57	.49	.39	.44	.62	.61	2.3	8.4	2.6	1.3	1.1
AC-FT	54	44	41	30	34	45	75	408	811	276	108	83

CAL YR 1979 TOTAL 1407.15 MEAN 3.86 MAX 42 MIN .45 AC-FT 2790
WTR YR 1980 TOTAL 1012.13 MEAN 2.77 MAX 18 MIN .39 AC-FT 2010

10245925 STONEBERGER CREEK NEAR AUSTIN, NV

LOCATION.--Lat 39°08'24", long 116°36'05", in SE¼NE¼ sec.18, T.15 N., R.47 E., Nye County, Hydrologic Unit 1606005 on left bank 2 mi (3.2 km) southwest of Monitor Ranch and 42 mi (68 km) north of Belmont.

DRAINAGE AREA.--35.6 mi^2 (92.2 km^2).

PERIOD OF RECORD.--October 1977 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,880 ft (2,100 m), from topographic map.

REMARKS.--Records good except for periods of no gage height record, July 15 to Sept. 16, which are poor. Monthly measurements of specific conductance and water temperature are listed in section titled "supplemental Water-Quality Data for Gaging Stations."

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13 ft^3/s (0.37 m^3/s) May 31, 1979, gage height 1.88 ft 0.573 m); minimum, 0.12 ft^3/s (0.003 m^3/s) Sept. 17, 18, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 2.6 ft^3/s (0.07 m^3/s) May 28, gage height 0.94 ft (0.286 m); minimum 0.12 ft^3/s (0.003 m^3/s) Sept. 17, 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.59	.54	.58	.51	.56	.63	.87	1.1	1.9	1.3	.32	.17
2	.57	.58	.58	.54	.60	.66	.83	1.1	1.9	1.2	.31	.16
3	.54	.58	.58	.47	.59	.71	.87	1.2	2.0	1.2	.30	.16
4	.54	.58	.58	.44	.59	.73	.87	1.2	2.0	1.0	.30	.16
5	.51	.58	.58	.40	.60	.74	.88	1.2	1.9	.98	.29	.16
6	.51	.57	.54	.37	.62	.71	.91	1.2	2.0	.95	.28	.16
7	.54	.56	.58	.35	.62	.74	.89	1.3	1.9	.86	.28	.17
8	.54	.54	.58	.34	.54	.68	.87	1.2	1.9	.70	.27	.20
9	.54	.57	.58	.33	.56	.73	.88	1.2	2.0	.69	.26	.19
10	.58	.62	.58	.33	.61	.73	.86	1.3	2.0	.61	.25	.20
11	.58	.54	.37	.33	.67	.75	.86	1.4	1.9	.58	.25	.19
12	.58	.66	.34	.33	.67	.67	.88	1.5	2.0	.57	.24	.16
13	.58	.66	.37	.33	.67	.78	.87	1.5	1.9	.56	.24	.15
14	.54	.65	.40	.38	.70	.82	.87	1.6	1.9	.55	.23	.14
15	.54	.64	.47	.35	.68	.82	.92	1.5	2.1	.58	.23	.13
16	.54	.62	.51	.34	.69	.79	.96	1.5	2.0	.55	.22	.13
17	.54	.58	.51	.35	.67	.73	1.0	1.6	1.9	.53	.22	.12
18	.54	.54	.51	.36	.71	.78	1.1	1.6	1.9	.51	.21	.12
19	.54	.50	.51	.37	.70	.78	1.1	1.6	1.8	.49	.21	.13
20	.54	.45	.51	.37	.70	.81	1.1	1.7	1.7	.47	.20	.15
21	.54	.44	.51	.36	.66	.83	1.1	1.7	1.7	.46	.20	.14
22	.54	.47	.47	.37	.59	.79	1.1	1.7	1.7	.44	.20	.15
23	.58	.51	.40	.44	.63	.84	1.1	1.8	1.7	.42	.19	.15
24	.58	.66	.50	.46	.63	.84	1.1	2.0	1.6	.41	.19	.15
25	.58	.70	.50	.48	.66	.77	1.1	2.1	1.5	.40	.19	.15
26	.58	.66	.50	.52	.67	.83	1.1	2.1	1.4	.39	.18	.14
27	.58	.51	.40	.56	.68	.84	1.1	2.1	1.4	.38	.18	.15
28	.58	.44	.40	.58	.70	.84	1.1	2.1	1.3	.36	.18	.17
29	.58	.47	.47	.56	.65	.87	1.1	2.3	1.3	.35	.17	.17
30	.56	.54	.51	.45	---	.85	1.2	2.3	1.2	.35	.17	.18
31	.54	---	.51	.50	---	.84	---	2.1	---	.34	.17	---
TOTAL	17.22	16.96	15.43	12.87	18.62	23.93	29.49	49.8	53.4	19.18	7.13	4.70
MEAN	.56	.57	.50	.42	.64	.77	.98	1.61	1.78	.62	.23	.16
MAX	.59	.70	.58	.58	.71	.87	1.2	2.3	2.1	1.3	.32	.20
MIN	.51	.44	.34	.33	.54	.63	.83	1.1	1.2	.34	.17	.12
AC-FT	34	34	31	26	37	47	58	99	106	38	14	9.3

CAL YR 1979 TOTAL 835.09 MEAN 2.29 MAX 12 MIN .34 AC-FT 1660
WTR YR 1980 TOTAL 268.73 MEAN .73 MAX 2.3 MIN .12 AC-FT 533

10246846 LITTLE CURRANT CREEK NEAR CURRANT, NV

LOCATION.--Lat 38°50'50", long 115°22'00", in NE¼NW¼ sec.5, T.11 N., R.59 E., Nye County, Hydrologic Unit 16060012, in Humboldt National Forest, on right bank 0.2 mi (0.3 km) upstream from reservoir diversion, 2.5 mi (4.0 km) upstream from mouth, and 9 mi (14 km) northeast of Currant.

DRAINAGE AREA.--12.9 mi^2 (33.4 km^2).

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,700 ft (2,042 m), from topographic map.

REMARKS.--Records good except those for winter months, which are fair. No diversion above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--16 years, 7.09 ft^3/s (0.201 m^3/s), 2,600 acre-ft/yr (3.21 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 366 ft^3/s (10.4 m^3/s) Dec. 6, 1966, gage height, 4.1 ft (1.25 m), from floodmarks, from rating curve extended above 60 ft^3/s (1.70 m^3/s) on basis of slope-area measurement of peak flow; no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 43 ft^3/s (1.22 m^3/s) May 22, gage height, 2.07 ft (0.631 m); minimum daily, 0.56 ft^3/s (0.016 m^3/s) Dec. 12, 13, Jan. 29 - 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	1.2	1.0	.61	.58	3.2	5.2	24	16	16	4.8	2.6
2	1.4	1.2	.99	.61	.62	3.6	5.2	24	16	18	4.6	2.6
3	1.4	1.2	.99	.61	.64	4.0	5.5	27	16	15	4.5	2.5
4	1.4	1.2	.99	.61	.64	4.0	5.5	30	19	14	4.3	2.5
5	1.4	1.2	.99	.61	.64	4.0	5.5	33	20	13	4.2	2.4
6	1.4	1.1	.99	.62	.64	4.1	5.6	37	21	12	4.3	2.5
7	1.3	1.1	.98	.62	.66	4.0	5.8	32	19	12	4.3	2.7
8	1.3	1.1	.91	.62	.66	4.2	6.3	28	21	11	4.1	2.6
9	1.3	1.1	.91	.62	.71	4.2	7.5	29	24	10	4.1	2.8
10	1.3	1.1	.82	.62	.76	4.2	8.7	26	26	9.6	3.9	2.8
11	1.3	1.1	.58	.70	.78	4.2	8.6	23	26	8.8	3.9	2.6
12	1.3	.99	.56	.78	.76	4.2	8.9	24	25	8.4	3.8	2.9
13	1.3	.99	.56	.82	.76	4.2	9.8	25	22	8.2	3.6	2.8
14	1.3	.99	.58	.92	.81	4.4	11	26	20	8.2	3.9	2.7
15	1.3	.99	.62	.91	.89	4.4	12	24	19	8.0	3.8	2.4
16	1.3	.91	.67	.99	.82	4.4	13	22	19	7.3	3.8	2.5
17	1.3	.91	.67	.93	.85	4.6	16	22	20	7.0	3.6	2.3
18	1.3	.99	.71	.88	.88	4.7	21	24	20	6.8	3.6	2.3
19	1.3	.91	.75	.79	.92	4.7	27	25	20	6.8	3.6	2.2
20	1.4	.67	.69	.60	.95	4.7	32	30	20	6.8	3.5	2.2
21	1.3	.69	.67	.58	1.0	4.8	31	36	19	6.6	3.4	2.2
22	1.3	.72	.65	.58	1.1	4.7	27	40	19	6.1	3.4	2.2
23	1.3	.74	.57	.60	1.1	4.8	26	37	18	6.0	3.2	2.1
24	1.2	.78	.58	.63	1.2	5.0	23	29	17	5.6	3.2	2.1
25	1.2	.82	.58	.63	1.3	5.0	22	26	16	5.4	3.1	2.0
25	1.2	.82	.58	.63	1.4	5.0	22	22	15	5.3	3.0	2.0
27	1.2	.82	.58	.60	1.6	5.0	24	20	15	5.2	2.8	2.0
28	1.2	.85	.58	.57	1.8	5.0	27	19	14	5.1	2.7	2.0
29	1.2	1.0	.60	.56	2.4	5.0	27	19	14	5.2	2.8	2.0
30	1.2	1.0	.60	.56	---	5.2	26	17	15	5.1	2.7	1.9
31	1.2	---	.60	.56	---	5.2	---	16	---	5.0	2.7	---
TOTAL	40.2	29.19	22.55	20.97	27.87	138.7	475.1	816	571	267.5	113.2	71.4
MEAN	1.30	.97	.73	.68	.96	4.47	15.8	26.3	19.0	8.63	3.65	2.38
MAX	1.4	1.2	1.0	.99	2.4	5.2	32	40	26	18	4.8	2.9
MIN	1.2	.67	.56	.56	.58	3.2	5.2	16	14	5.0	2.7	1.9
AC-FT	80	58	45	42	55	275	942	1620	1130	531	225	142

CAL YR 1979 TOTAL 1880.64 MEAN 5.15 MAX 24 MIN .56 AC-FT 3730
WTR YR 1980 TOTAL 2593.68 MEAN 7.09 MAX 40 MIN .56 AC-FT 5140

10249190 WILLOW CREEK NEAR WARM SPRINGS, NV

LOCATION.--Lat 38°34'35", long 116°35'05", in SE¼SE¼ sec. 6, T.8 N., R.43 E., Nye County, Hydrologic Unit 16060011, in Toiyabe National Forest, on left bank about 3 mi (5 km) north of Toiyabe National Forest boundary and 30 mi (48 km) northwest of Warm Springs.

DRAINAGE AREA.--16.4 mi^2 (42.5 km^2).

PERIOD OF RECORD.--October 1977 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,800 ft (2,070 m), from topographic map.

REMARKS.--Records poor. Monthly measurements of specific conductance and water temperature are listed in section titled "supplemental Water-Quality Data for Gaging Stations."

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 92 ft^3/s (2.61 m^3/s) Mar. 31, 1978, gage height, 2.70 ft (0.823 m); no flow many days most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 5.5 ft^3/s (0.16 m^3/s) Apr. 18, gage height 1.76 ft (0.536 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.02	.04	.02	.10	.96	1.7	4.3	1.8	.72	.32	.00
2	.00	.02	.04	.03	.10	.96	1.7	4.3	1.7	.62	.19	.00
3	.00	.02	.04	.04	.10	1.0	1.7	4.3	1.7	.67	.19	.00
4	.00	.02	.04	.04	.10	1.0	1.7	3.9	1.7	.67	.14	.00
5	.00	.02	.04	.04	.11	1.1	1.7	3.9	2.0	.45	.08	.00
6	.00	.02	.04	.02	.11	1.1	1.8	3.7	1.5	.58	.06	.00
7	.00	.02	.04	.02	.13	1.1	1.8	3.7	1.6	.42	.07	.00
8	.00	.02	.04	.02	.11	.96	2.0	3.7	1.5	.45	.08	.83
9	.00	.02	.04	.02	.13	1.0	2.6	3.1	1.2	.42	.06	.53
10	.00	.02	.04	.02	.14	1.1	3.3	3.3	1.2	.42	.05	1.0
11	.00	.02	.04	.02	.14	1.1	2.9	2.9	1.3	.35	.03	.53
12	.00	.02	.04	.03	.15	1.0	2.9	2.9	1.2	.35	.02	.78
13	.00	.03	.04	.04	.15	1.2	3.9	2.9	1.0	.25	.02	.35
14	.00	.03	.04	.07	.17	1.3	4.3	2.8	.83	.21	.02	.13
15	.00	.03	.04	.10	.15	1.3	4.5	2.9	1.0	.21	.01	.08
16	.00	.04	.04	.10	.15	1.3	4.5	2.6	.78	.18	.00	.07
17	.00	.04	.04	.10	.17	1.3	5.0	2.3	.72	.15	.00	.04
18	.00	.05	.04	.06	1.0	1.4	5.0	2.2	.78	.14	.00	.04
19	.00	.05	.04	.09	.96	1.4	5.5	2.2	.72	.11	.00	.02
20	.00	.05	.04	.08	.72	1.3	5.5	2.1	.67	.09	.00	.03
21	.00	.05	.03	.08	.62	1.5	5.0	2.0	.67	.08	.00	.00
22	.00	.05	.03	.07	.67	1.6	4.7	2.0	.67	.14	.00	.00
23	.00	.05	.03	.08	.62	1.5	5.0	2.2	.58	.38	.00	.00
24	.00	.05	.03	.08	.58	1.5	4.5	2.2	.67	.30	.00	.00
25	.00	.05	.03	.10	.58	1.5	4.1	2.1	.58	.23	.00	.00
26	.00	.04	.02	.11	.67	1.8	4.1	1.8	.67	.19	.00	.00
27	.00	.04	.02	.10	.90	1.5	4.1	1.8	.62	.19	.00	.00
28	.01	.04	.02	.10	.96	1.6	4.1	1.7	.42	.15	.00	.00
29	.02	.04	.02	.10	.96	1.7	4.1	1.8	.32	.25	.00	.00
30	.02	.04	.02	.06	---	1.8	5.0	1.8	.42	.27	.00	.00
31	.02	---	.02	.11	---	1.8	---	1.8	---	.25	.00	---
TOTAL	.07	1.01	1.07	1.95	11.45	40.68	108.7	85.2	30.52	9.89	1.34	4.43
MEAN	.002	.034	.035	.063	.39	1.31	3.62	2.75	1.02	.32	.043	.15
MAX	.02	.05	.04	.11	1.0	1.8	5.5	4.3	2.0	.72	.32	1.0
MIN	.00	.02	.02	.02	.10	.96	1.7	1.7	.32	.08	.00	.00
AC-FT	.1	2.0	2.1	3.9	23	81	216	169	61	20	2.7	8.8

CAL YR 1979 TOTAL 371.87 MEAN 1.02 MAX 8.4 MIN .00 AC-FT 738
WTR YR 1980 TOTAL 296.31 MEAN .81 MAX 5.5 MIN .00 AC-FT 588

10249280 KINGSTON CREEK BELOW COUGAR CANYON, NEAR AUSTIN, NV

LOCATION.--Lat 39°12'45", long 117°06'45", in NW¼ sec.35, T.16 N., R.43 E., Lander County, Hydrologic Unit 16060004, in Toiyabe National Forest, on left bank 1.1 mi (1.8 km) downstream from Cougar Canyon and 19 mi (31 km) southeast of Austin.

DRAINAGE AREA.--23.4 mi^2 (60.6 km^2).

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,480 ft (1,975 m), from topographic map.

REMARKS.--Records good. Two diversions above station. Flow affected by storage in Groves Reservoir, capacity, 190 acre-ft (234,000 m^2) about 4 mi (6 km) upstream since January 1970, when installation was completed by Nevada Department of Fish and Game for fishery enhancement and recreation. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--14 years, 8.35 ft^3/s (0.236 m^3/s), 6,050 acre-ft/yr (7.46 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 150 ft^3/s (4.25 m^3/s) May 18, 1973, gage height, 3.58 ft (1.091 m), on basis of indirect measurement of peak flow; minimum, 1.4 ft^3/s (0.040 m^3/s) Aug. 24, 1972.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 18 ft^3/s (0.51 m^3/s) July 1, gage height, 2.08 ft (0.634 m); minimum daily, 4.2 ft^3/s (0.12 m^3/s) Mar. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.3	6.3	5.4	5.2	4.8	5.0	4.8	6.5	8.9	14	11	8.9
2	7.3	5.9	5.6	5.2	4.8	5.0	4.6	6.5	9.1	14	11	8.9
3	7.3	5.9	5.7	5.2	4.8	4.8	4.8	6.5	9.2	14	11	8.2
4	7.3	5.9	5.7	5.2	4.8	4.8	5.7	6.5	9.6	14	11	8.2
5	7.0	5.9	5.7	5.0	4.8	4.8	5.4	6.6	9.6	14	11	7.9
6	7.0	5.9	5.7	5.0	5.0	4.8	5.7	6.7	9.6	14	11	7.9
7	7.0	5.9	5.7	5.0	5.0	4.6	5.7	7.0	9.9	14	11	8.2
8	7.0	5.8	5.4	5.0	5.0	4.5	5.4	7.0	10	14	11	7.9
9	6.6	5.7	5.4	5.0	5.0	4.5	5.2	7.0	10	14	11	7.6
10	6.5	5.7	5.6	5.0	5.0	4.5	5.2	7.0	11	14	11	7.6
11	6.5	5.7	5.7	5.0	5.0	4.6	5.2	7.0	12	14	11	7.6
12	6.7	5.7	5.7	5.0	5.0	4.6	5.2	7.0	12	14	11	7.3
13	6.7	5.7	5.7	5.0	5.0	4.5	5.4	7.0	12	13	11	7.3
14	6.7	5.7	5.7	5.0	5.0	4.5	5.4	7.0	12	13	11	7.3
15	6.7	5.7	5.4	5.0	5.0	4.5	5.4	7.1	12	13	10	7.3
16	6.7	5.6	5.4	5.0	5.0	4.3	5.7	7.6	12	13	10	7.3
17	6.7	5.4	5.4	4.8	5.0	4.3	5.9	7.6	12	13	10	7.3
18	6.7	5.7	5.4	4.8	5.0	4.3	5.9	7.6	12	13	10	7.3
19	6.7	5.7	5.4	4.8	5.0	4.3	5.9	7.6	12	13	10	7.3
20	6.7	5.7	5.4	4.8	5.0	4.3	6.2	7.8	12	12	9.9	7.3
21	6.7	5.7	5.4	4.8	5.0	4.2	6.2	7.9	12	12	9.9	7.2
22	6.4	5.7	5.4	4.8	5.0	4.4	6.2	7.9	12	12	9.6	7.0
23	6.2	5.7	5.4	4.8	4.8	4.4	6.2	8.2	12	12	9.6	7.0
24	6.2	5.7	5.2	4.8	4.8	4.4	6.2	8.2	12	12	9.6	6.9
25	6.2	5.7	5.2	4.8	4.8	4.4	6.2	8.2	13	12	9.6	6.2
26	6.2	5.7	5.2	5.0	4.9	4.8	6.2	8.2	13	12	9.6	6.2
27	6.4	5.7	5.2	5.0	4.8	4.6	6.2	8.2	13	12	9.2	6.2
28	6.2	5.7	5.2	5.0	4.8	4.6	6.4	8.2	13	12	9.2	6.2
29	6.2	5.7	5.2	5.0	5.0	4.8	6.5	8.5	13	12	8.9	6.2
30	6.4	5.7	5.2	4.9	---	4.8	6.5	8.5	14	12	8.9	6.2
31	6.5	---	5.2	4.8	---	4.8	---	8.5	---	12	8.9	---
TOTAL	206.7	172.5	168.9	153.7	142.9	141.7	171.5	231.1	343.9	403	316.9	219.9
MEAN	6.67	5.75	5.45	4.96	4.93	4.57	5.72	7.45	11.5	13.0	10.2	7.33
MAX	7.3	6.3	5.7	5.2	5.0	5.0	6.5	8.5	14	14	11	8.9
MIN	6.2	5.4	5.2	4.8	4.8	4.2	4.6	6.5	8.9	12	8.9	6.2
AC-FT	410	342	335	305	283	281	340	458	682	799	629	436

CAL YR 1979 TOTAL 3388.6 MEAN 9.28 MAX 31 MIN 3.8 AC-FT 6720
WTR YR 1980 TOTAL 2672.7 MEAN 7.30 MAX 14 MIN 4.2 AC-FT 5300

10249300 SOUTH TWIN RIVER NEAR ROUND MOUNTAIN, NV
(Hydrologic bench-mark station)

LOCATION.--Lat 38°53'15", long 117°14'40", in SW¼NE¼ sec.22, T.12 N., R.42 E., Nye County, Hydrologic Unit 16060004, in Toiyabe National Forest, on right bank 600 ft (180 m) upstream from diversion, 3 mi (5 km) west of State Highway 8A, and 15 mi (24 km) northwest of Round Mountain.

DRAINAGE AREA.--20 mi^2 (52 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--1964 (miscellaneous site), 1965 (low-flow, partial-record site), August 1965 to current year.

GAGE.--Water-stage recorder with thermograph attachment. Altitude of gage is 6,400 ft (1,951 m), from topographic map.

REMARKS.--Records good except those for winter months, which are poor. No diversions above station.

AVERAGE DISCHARGE.--15 years, 6.56 ft^3/s (0.186 m^3/s), 4,750 acre-ft/yr (5.86 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 128 ft^3/s (3.62 m^3/s) June 3, 1975, gage height, 3.69 ft (1.125 m); maximum gage height recorded, 4.26 ft (1.298 m) Jan 30, 1979 (backwater from ice); minimum, 0.11 ft^3/s (0.003 m^3/s) Sept. 4, 1972.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 43 ft^3/s (1.22 m^3/s) at 0200 hours, May 23, gage height 2.55 ft (0.777 m), no other peak above base of 20 ft^3/s (0.57 m^3/s); minimum daily, 1.7 ft^3/s (0.048 m^3/s) Dec. 11, Jan. 31 (result of freezeup).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	2.9	2.5	2.2	2.1	3.4	3.7	13	20	11	4.2	2.1
2	3.2	2.9	2.7	2.2	2.3	3.4	3.6	14	20	11	3.8	2.0
3	3.1	3.0	2.7	2.3	2.5	3.5	3.3	14	20	10	3.6	2.0
4	3.0	3.1	2.7	2.2	2.7	3.4	3.3	15	21	9.5	3.5	2.0
5	3.0	2.9	2.6	2.2	2.7	3.4	3.2	17	20	8.8	3.4	1.9
6	3.0	3.0	2.7	2.2	2.5	3.4	3.1	19	20	8.2	3.2	1.9
7	3.0	2.9	2.7	2.2	2.4	3.1	3.1	26	20	7.8	3.1	2.9
8	3.2	2.9	2.5	2.2	2.2	3.7	3.2	28	20	7.5	3.1	3.0
9	3.3	2.8	2.5	2.2	2.1	4.2	3.7	27	22	7.1	3.0	2.8
10	3.2	2.9	2.5	2.2	2.0	5.1	4.3	25	24	6.7	2.9	2.8
11	3.1	2.9	1.7	2.3	2.1	6.1	4.4	25	25	6.4	2.9	2.9
12	3.2	2.9	1.9	3.2	2.2	5.5	4.4	24	24	6.1	2.8	2.7
13	3.2	2.9	2.0	3.6	2.3	5.8	5.1	25	23	6.4	2.7	2.7
14	3.1	3.0	2.1	4.7	2.4	6.0	6.0	26	22	6.3	2.7	2.5
15	3.1	2.9	2.2	3.8	2.4	5.7	6.8	25	20	5.8	2.8	2.5
16	3.2	2.9	2.3	3.5	2.6	5.1	7.7	25	18	5.4	2.8	2.4
17	3.2	2.9	2.4	3.3	2.6	4.8	8.9	25	18	5.0	2.8	2.3
18	3.1	2.9	2.4	3.1	3.0	5.0	10	27	18	4.8	2.6	2.2
19	3.2	2.7	2.4	2.6	3.1	5.0	12	30	17	4.6	2.6	2.3
20	3.4	2.4	2.3	2.2	3.0	5.3	13	32	17	4.5	2.4	2.3
21	3.3	2.1	2.4	2.0	3.0	5.3	14	38	16	4.3	2.3	2.3
22	3.3	2.3	2.3	2.0	2.7	4.9	13	41	16	4.6	2.2	2.3
23	3.2	2.5	2.2	2.1	2.8	4.7	11	41	15	4.7	2.1	2.3
24	3.2	2.6	2.3	2.2	3.0	4.9	9.9	38	14	4.4	2.2	2.2
25	3.1	2.5	2.3	2.2	3.0	4.6	10	33	14	4.3	2.2	2.2
26	3.1	2.2	2.3	2.2	3.1	4.4	11	28	13	4.2	2.1	2.2
27	3.1	2.0	2.3	2.1	3.4	4.3	12	25	13	4.1	2.1	2.1
28	3.2	2.1	2.2	2.1	3.5	3.8	13	23	12	4.3	2.0	2.1
29	3.4	2.3	2.2	1.9	3.4	3.8	13	22	11	4.7	2.0	2.1
30	3.0	2.4	2.3	1.8	---	3.9	13	21	11	4.4	2.1	2.1
31	3.2	---	2.2	1.7	---	3.6	---	20	---	4.2	2.1	---
TOTAL	98.2	80.7	72.8	76.7	77.1	139.1	232.7	792	544	191.1	84.3	70.1
MEAN	3.17	2.69	2.35	2.47	2.66	4.49	7.76	25.5	18.1	6.16	2.72	2.34
MAX	3.4	3.1	2.7	4.7	3.5	6.1	14	41	25	11	4.2	3.0
MIN	3.0	2.0	1.7	1.7	2.0	3.1	3.1	13	11	4.1	2.0	1.9
AC-FT	195	160	144	152	153	276	462	1570	1080	379	167	139

CAL YR 1979 TOTAL 3395.9 MEAN 9.30 MAX 74 MIN 1.7 AC-FT 6740
WTR YR 1980 TOTAL 2458.8 MEAN 6.72 MAX 41 MIN 1.7 AC-FT 4880

10249300 SOUTH TWIN RIVER NEAR ROUND MOUNTAIN, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1965 to current year.
CHEMICAL ANALYSES AND SPECIFIC CONDUCTANCES: October 1967 and March 1968 to current year, monthly.
BIOLOGICAL DATA: July 1970 to July 1973, once- or twice-yearly (24-hr studies); May 1975 to August 1977, twice-yearly; December 1977 to current year, monthly (seasonal).
MICROBIOLOGICAL DATA: October 1974 to current year, monthly.
WATER TEMPERATURES: July 1965 to April 1966, monthly; May 1966 to September 1968, continuous; October 1968 to December 1969, monthly; January 1970 to September 1977, continuous; October 1977 to August 1978, monthly; September 1978 to current year, hourly.
SEDIMENT DATA: October 1967 to September 1975, monthly; October 1975 to September 1977, occasionally (at times of noticeable turbidity or high discharge); October 1977 to current year, monthly.

INSTRUMENTATION.--Temperature recorder since April 1966.

REMARKS.--Temperature recorder malfunctioned from Apr. 10-22, June 12-23.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 158 micromhos May 8, 1975; minimum, 75 micromhos June 16, 1971.
PHYTOPLANKTON: Maximum, 8,100 cells/mL Nov. 29, 1978; minimum, <1 cells/mL Aug. 19 and Sept. 17, 1980.
FECAL STREPTOCOCCI: Maximum, 1,500 colonies/100 mL (non-ideal colony count) Feb. 21, 1977; minimum, less than 2 colonies/100 mL several times during period of record.
WATER TEMPERATURES: Maximum, 18.0°C July 24, 1979; minimum, freezing point on several days in many years.
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 1,970 mg/L June 5, 1975; minimum, 0 mg/L July 26, 1973, Aug. 23, 1973.

EXTREMES FOR CURRENT YEAR (MEASUREMENTS AT LEAST ONCE-DAILY).--
WATER TEMPERATURES: Maximum, 17.5°C on some days in July and Aug.; minimum, freezing point on several days during periods of cold weather.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	COLI-FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)
OCT											
23...	1120	3.2	135	8.2	4.0	.30	9.5	K30	K5	K9	55
NOV											
27...	0850	2.4	139	7.9	.0	.40	11.0	50	<2	K2	54
DEC											
18...	1010	2.3	135	8.1	.5	.30	10.4	<2	<2	--	54
JAN											
22...	0920	2.3	139	8.0	.0	.60	11.6	K26	<2	K2	54
FEB											
20...	1000	3.0	136	7.8	2.0	.30	10.5	K20	<2	<2	57
MAR											
18...	0955	5.1	134	7.4	1.5	2.4	11.1	87	<2	K19	54
APR											
23...	1000	12	126	7.9	5.0	1.8	9.8	100	<2	<2	49
MAY											
20...	1035	31	98	8.0	8.0	6.6	9.1	140	<2	K6	37
JUN											
24...	1130	15	83	7.9	9.0	2.1	9.0	140	<2	K28	29
JUL											
22...	0945	5.0	107	8.1	13.0	1.8	8.1	470	K3	71	40
AUG											
19...	1620	2.4	122	8.1	14.5	.80	7.8	690	<2	63	46
SEP											
17...	1330	2.5	129	8.1	13.0	.40	8.3	680	<2	K18	48

K: NON-IDEAL COLONY COUNT.

10249300 SOUTH TWIN RIVER NEAR ROUND MOUNTAIN, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)
OCT 23...	1120	19	1.8	7.0	.4	1.0	76	0	62
NOV 27...	0850	19	1.6	6.8	.4	.8	78	0	64
DEC 18...	1010	19	1.6	6.6	.4	.8	78	0	64
JAN 22...	0920	19	1.6	6.5	.4	.9	75	0	62
FEB 20...	1000	20	1.6	6.1	.4	1.0	74	0	61
MAR 18...	0955	19	1.6	5.9	.4	.8	75	0	62
APR 23...	1000	17	1.5	6.0	.4	.8	--	--	--
MAY 20...	1035	13	1.0	5.4	.4	.8	53	0	43
JUN 24...	1130	10	.9	4.7	.4	.6	46	0	38
JUL 22...	0945	14	1.1	5.7	.4	.8	58	0	48
AUG 19...	1620	16	1.4	6.0	.4	.8	67	0	55
SEP 17...	1330	17	1.3	6.1	.4	.8	73	0	61

DATE	TIME	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)
OCT 23...	1120	8.4	2.0	.1	21	90	98	.78
NOV 27...	0850	8.8	2.0	.2	19	104	97	.67
DEC 18...	1010	6.5	2.2	.1	19	86	95	.53
JAN 22...	0920	6.0	2.1	.1	18	91	92	.57
FEB 20...	1000	5.4	2.2	.1	15	80	83	.65
MAR 18...	0955	5.9	1.9	.1	19	98	92	1.35
APR 23...	1000	6.0	1.7	.2	18	96	--	3.11
MAY 20...	1035	4.8	1.2	.2	20	76	73	6.36
JUN 24...	1130	--	--	.1	20	71	--	2.88
JUL 22...	0945	4.8	1.5	.3	21	74	78	1.00
AUG 19...	1620	2.7	1.5	.1	20	88	82	.58
SEP 17...	1330	4.4	1.7	.2	20	98	88	.66

10249300 SOUTH TWIN RIVER NEAR ROUND MOUNTAIN, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, DIS-SOLVED (MG/L AS N)
OCT										
23...	1120	.00	.000	.00	.000	.000	--	.21	--	.21
NOV										
27...	0850	.00	.010	.01	.010	.010	.20	--	.22	--
DEC										
18...	1010	.04	.010	.06	.000	.010	.22	.18	.27	.25
JAN										
22...	0920	.07	.020	.08	.010	.010	.35	.36	.45	.45
FEB										
20...	1000	.07	.000	.06	.040	.040	.10	.09	.21	.19
MAR										
18...	0955	.07	.000	.07	.000	.000	.27	.23	.34	.30
APR										
23...	1000	.10	.000	.10	.040	.060	.67	.37	.81	.53
MAY										
20...	1035	.07	.010	.07	.000	.010	.36	.33	.44	.41
JUN										
24...	1130	.11	.000	.02	--	.080	--	.54	--	.64
JUL										
22...	0945	.00	.000	.00	.000	.000	.80	.68	.80	.68
AUG										
19...	1620	.00	.000	.00	.000	.000	.12	.04	.12	.04
SEP										
17...	1330	.00	.000	.00	.000	--	.34	--	.34	.05

DATE	TIME	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED (MG/L AS C)
OCT							
23...	1120	.000	.000	--	2.1	--	--
NOV							
27...	0850	.000	.000	.010	2.0	--	--
DEC							
18...	1010	.000	.010	.000	--	3.1	.3
JAN							
22...	0920	.010	.000	.000	1.2	--	--
FEB							
20...	1000	.010	.010	.010	2.8	--	--
MAR							
18...	0955	.030	.000	.000	--	--	.3
APR							
23...	1000	.050	.000	.000	3.9	--	--
MAY							
20...	1035	.030	.010	.030	--	4.0	.8
JUN							
24...	1130	.000	.000	.030	2.7	--	.1
JUL							
22...	0945	.010	.030	.000	2.5	--	--
AUG							
19...	1620	.010	.010	.000	--	--	.2
SEP							
17...	1330	.020	.020	.000	.8	--	--

10249300 SOUTH TWIN RIVER NEAR ROUND MOUNTAIN, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, TOTAL (UG/L AS BA)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM TOTAL (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, TOTAL (UG/L AS CO)	COBALT, DIS-SOLVED (UG/L AS CO)
DEC 18...	1010	3	4	0	20	--	0	<1	--	0	0	<3
FEB 20...	1000	--	--	--	--	--	--	--	--	--	--	--
MAR 18...	0955	3	4	0	20	--	0	<1	0	0	0	<3
APR 23...	1000	--	--	--	--	--	--	--	--	--	--	--
MAY 20...	1035	3	3	0	10	<1	0	1	0	0	2	0
JUL 22...	0945	--	--	--	--	--	--	--	--	--	--	--
AUG 19...	1620	4	4	--	20	--	0	1	--	10	0	<3

DATE	COPPER, TOTAL (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)
DEC 18...	5	0	80	10	2	0	--	10	<1	.0	.0	--
FEB 20...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 18...	3	2	380	280	9	0	--	20	10	.0	.0	--
APR 23...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 20...	4	0	520	80	4	2	6	20	0	.0	.0	<10
JUL 22...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 19...	2	0	90	<10	1	2	--	--	7	.0	.0	--

DATE	NICKEL, TOTAL (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)	CYANIDE TOTAL (MG/L AS CN)
DEC 18...	2	0	0	0	0	0	--	--	40	6	--
FEB 20...	--	--	--	--	0	--	--	--	--	--	--
MAR 18...	0	0	0	0	0	0	--	--	20	<3	--
APR 23...	--	--	--	--	0	--	--	--	--	--	--
MAY 20...	5	0	0	0	0	0	81	<6.0	--	10	.00
JUL 22...	--	--	--	--	1	--	--	--	--	--	--
AUG 19...	2	0	0	0	0	0	--	--	30	<3	.00

10249300 SOUTH TWIN RIVER NEAR ROUND MOUNTAIN, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE	NOV 27,79	MAR 18,80	MAY 20,80	JUN 24,80
TIME	0850	0955	1035	1130
TOTAL CELLS/ML	56	39	13	350
DIVERSITY: DIVISION	1.0	0.0	0.0	0.2
.CLASS	1.0	0.0	0.0	0.2
..ORDER	1.0	0.9	0.0	0.6
...FAMILY	1.7	0.9	0.0	0.6
....GENUS	1.9	0.9	0.0	0.6

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...OOCYSTACEAE								
....ANKISTRODESMUS	31#	55	--	-	--	-	--	-
....DICTYOSPHAERIUM	--	-	--	-	--	-	--	-
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	--	-	13#	33	--	-	--	-
..PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	5	9	--	-	--	-	--	-
....COCCONEIS	--	-	--	-	13#	100	--	-
....RHOICOSPHENIA	5	9	--	-	--	-	--	-
...FRAGILARIACEAE								
....FRAGILARIA	5	9	--	-	--	-	--	-
...NITZSCHIACEAE								
....NITZSCHIA	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROOCOCCALES								
...CHROOCOCCACEAE								
....ANACYSTIS	--	-	--	-	--	-	26	7
..HORMOGONALES								
...OSCILLATORIACEAE								
....OSCILLATORIA	--	-	--	-	--	-	310#	89

DATE	JUL 22,80	AUG 19,80	SEP 17,80
TIME	0945	1620	1330
TOTAL CELLS/ML	26	<1	<1
DIVERSITY: DIVISION	0.0	0.0	0.0
.CLASS	0.0	0.0	0.0
..ORDER	0.0	0.0	0.0
...FAMILY	0.0	0.0	0.0
....GENUS	0.0	0.0	0.0

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)						
.CHLOROPHYCEAE						
..CHLOROCOCCALES						
...OOCYSTACEAE						
....ANKISTRODESMUS	--	-	--	-	--	-
....DICTYOSPHAERIUM	26#	100	--	-	--	-
CHRYSOPHYTA						
.BACILLARIOPHYCEAE						
..CENTRALES						
...COSCINODISCACEAE						
....CYCLOTELLA	--	-	--	-	--	-
..PENNALES						
...ACHNANTHACEAE						
....ACHNANTHES	--	-	--	-	--	-
....COCCONEIS	--	-	--	-	--	-
....RHOICOSPHENIA	--	-	--	-	--	-
...FRAGILARIACEAE						
....FRAGILARIA	--	-	--	-	--	-
...NITZSCHIACEAE						
....NITZSCHIA	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
.CYANOPHYCEAE						
..CHROOCOCCALES						
...CHROOCOCCACEAE						
....ANACYSTIS	--	-	--	-	--	-
..HORMOGONALES						
...OSCILLATORIACEAE						
....OSCILLATORIA	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

10249300 SOUTH TWIN RIVER NEAR ROUND MOUNTAIN, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PERIPHYTON

RETRIEVAL DATE	LENGTH OF EXPOSURE POLYETHYLENE STRIP (DAYS)	BIOMASS (G/M^2)		CHLOROPHYLL A (MG/M^2)	CHLOROPHYLL B (MG/M^2)
		DRY WEIGHT	ASH WEIGHT		
Jun 24	35	.000	.000	.100	.000
Sep 17	29	1.73	1.26	3.44	.850

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
OCT 23...	1120	3.2	3	.03
NOV 27...	0850	2.4	4	.03
DEC 18...	1010	2.3	5	.03
JAN 22...	0920	2.3	3	.02
FEB 20...	1000	3.0	2	.02
MAR 18...	0955	5.1	38	.52
APR 23...	1000	12	6	.19
MAY 20...	1035	31	38	3.2
JUN 24...	1130	15	18	.73
JUL 22...	0945	5.0	10	.13
AUG 19...	1620	2.4	3	.02
SEP 17...	1330	2.5	3	.02

10249300 SOUTH TWIN RIVER NEAR ROUND MOUNTAIN, NV--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	11.0	8.0	3.0	1.0	2.5	1.0	2.0	1.0	1.5	.0	3.5	1.0
2	11.0	8.5	3.5	.5	4.0	2.0	1.0	.0	2.5	.5	4.5	2.5
3	11.0	8.5	4.0	3.0	3.5	2.5	1.5	.0	4.0	2.0	3.0	2.0
4	11.0	9.0	3.5	2.0	4.0	2.0	1.5	.0	3.0	1.5	4.0	.5
5	11.0	8.5	2.5	.5	3.5	2.0	2.5	.5	3.5	1.5	3.5	1.5
6	11.0	8.5	3.0	1.5	3.0	1.5	3.0	2.0	3.0	1.0	2.5	.0
7	11.0	8.0	3.5	2.0	3.5	2.0	2.0	1.0	1.0	.5	2.5	.0
8	9.5	8.0	3.5	2.0	3.0	2.0	2.5	1.0	1.0	.0	3.0	.0
9	9.0	7.0	2.5	1.0	3.0	2.0	3.0	1.5	.0	.0	3.5	.0
10	9.0	7.0	1.5	.0	3.0	.5	2.5	.0	1.5	.0	4.0	.0
11	9.5	7.5	1.0	.0	.5	.0	2.0	.0	2.0	.0	3.5	1.0
12	9.0	7.0	1.0	---	.0	.0	4.5	2.5	2.5	.5	3.0	.0
13	9.0	7.0	1.0	---	.0	.0	5.0	3.0	2.5	.0	5.0	1.5
14	8.5	6.5	1.5	.0	1.0	.0	4.5	3.0	3.5	1.5	5.5	2.5
15	8.5	6.5	1.5	.0	1.5	.5	4.0	2.0	4.0	2.0	5.5	1.5
16	8.5	6.5	2.5	.0	1.5	1.0	3.5	2.5	3.0	1.5	4.0	.0
17	8.5	6.0	3.0	1.5	1.0	.5	3.0	2.0	4.5	2.0	5.0	.0
18	7.5	5.5	1.5	---	1.0	.5	2.5	.5	4.5	3.0	2.5	.0
19	8.5	6.5	---	---	2.5	1.5	1.5	.0	3.5	2.5	5.5	.5
20	6.5	3.5	---	---	2.0	.5	.5	.0	3.0	2.0	5.5	1.5
21	4.5	2.5	---	---	2.0	1.0	1.5	.0	3.5	1.0	4.0	1.0
22	5.0	2.5	---	---	1.5	.0	1.0	.0	3.0	.5	3.5	1.5
23	6.5	3.5	.0	---	.5	.0	1.0	.0	3.0	.5	6.5	1.5
24	6.5	4.5	2.0	.0	1.0	.0	1.5	.0	4.0	1.0	5.0	1.5
25	6.5	4.0	2.0	1.0	1.0	.0	2.0	.5	4.0	1.0	5.5	.5
26	6.0	4.0	2.0	.0	1.0	.0	1.5	.5	4.5	2.0	5.5	.5
27	5.0	2.5	1.0	---	.0	.0	2.5	1.0	5.0	2.0	6.5	1.5
28	4.0	3.0	1.5	.0	.0	.0	1.5	.5	4.5	2.0	6.0	.5
29	2.5	1.0	2.0	.5	.5	.0	1.5	.0	4.0	1.0	7.5	1.0
30	2.5	.0	2.5	1.0	1.0	.0	.0	.0	---	---	6.0	1.0
31	3.5	1.5	---	---	2.0	.5	.0	.0	---	---	5.5	.5
MONTH	11.0	.0	4.0	.0	4.0	.0	5.0	.0	5.0	.0	7.5	.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	5.5	1.5	11.0	4.5	9.5	5.5	12.0	10.0	17.0	14.0	14.0	9.5
2	5.5	1.5	9.5	6.5	9.5	6.0	13.5	10.0	17.5	13.5	14.5	11.0
3	7.0	1.5	9.5	6.5	9.5	4.5	13.0	10.0	17.0	13.5	14.5	11.5
4	5.5	3.0	9.0	5.5	9.0	5.5	14.0	10.0	17.0	13.0	14.5	11.0
5	6.0	2.5	11.0	6.0	10.0	6.0	13.5	9.0	17.0	12.5	15.0	11.0
6	7.5	2.0	10.0	6.0	10.0	5.0	13.0	9.5	16.5	13.0	15.0	12.0
7	7.0	1.0	8.5	5.0	11.5	5.5	13.0	10.0	16.0	13.0	13.0	10.5
8	8.0	2.0	9.0	5.0	12.5	6.5	14.5	10.5	16.5	13.5	11.5	9.5
9	10.0	3.5	8.0	4.5	12.5	7.0	14.0	10.0	17.0	12.5	11.5	10.0
10	---	---	5.0	3.0	12.5	7.5	14.5	10.0	17.0	12.5	11.5	10.0
11	---	---	5.5	3.0	12.0	7.0	14.5	10.5	17.0	13.0	12.0	10.5
12	---	---	7.0	3.5	---	---	15.0	10.5	17.5	13.5	11.5	10.0
13	---	---	7.0	3.5	---	---	13.0	11.0	17.0	13.0	12.5	9.5
14	---	---	8.5	5.0	---	---	14.5	10.0	16.5	12.5	12.0	9.5
15	---	---	9.0	5.5	---	---	15.5	11.0	16.0	12.5	11.5	9.5
16	---	---	10.0	5.0	---	---	16.0	11.5	14.5	11.0	12.5	9.0
17	---	---	---	---	---	---	16.0	12.0	15.0	11.5	13.0	10.0
18	---	---	---	---	---	---	16.5	12.0	15.5	11.5	12.5	11.0
19	---	---	---	---	---	---	16.5	11.5	14.5	11.0	11.5	9.0
20	---	---	12.0	7.0	---	---	16.5	11.5	14.5	10.0	11.0	8.0
21	---	---	11.0	6.5	---	---	16.5	12.0	15.5	11.0	10.5	8.5
22	---	---	11.5	6.5	---	---	17.0	13.0	15.0	11.5	10.0	7.0
23	8.0	5.0	7.0	4.0	---	---	16.0	13.5	15.0	11.0	10.0	7.0
24	11.0	5.5	6.0	3.5	13.0	7.5	17.0	13.5	14.0	10.5	11.0	7.5
25	10.5	4.5	7.5	3.0	13.5	[illegible]	16.5	13.5	13.5	11.0	11.0	8.0
26	11.0	5.0	8.0	3.5	13.0	[illegible]	16.5	13.5	15.0	10.5	11.0	9.0
27	10.5	5.5	8.5	4.0	12.5	7.5	17.5	14.0	14.5	11.5	12.0	9.0
28	9.5	6.5	8.0	5.5	13.5	8.5	17.5	14.5	13.5	10.5	12.0	9.0
29	9.0	5.5	8.0	5.0	14.5	11.0	16.0	14.0	14.0	10.5	11.0	8.5
30	10.0	4.5	8.0	6.0	12.5	10.5	16.0	13.5	13.5	10.0	12.0	9.0
31	---	---	9.0	5.5	---	---	16.5	14.0	13.5	10.0	---	---
MONTH	11.0	1.0	12.0	3.0	14.5	4.5	17.5	9.0	17.5	10.0	15.0	7.0
YEAR	17.5	.0										

10249411 CAMPBELL CREEK TRIBUTARY NEAR EASTGATE, NV

LOCATION.--Lat 39°15'58", long 117°41'56", in SE¼NE¼ sec.9, T.16 N., R.38 E., Lander County, Hydrologic Unit 16060002, on left bank just upstream from culvert on State Highway 2, 1.5 mi (2.4 km) east of Lander County line, and 10 mi (16 km) east of Eastgate.

DRAINAGE AREA.--2.14 mi^2 (5.54 km^2).

PERIOD OF RECORD.--Water years 1961-63 (annual maximum), October 1963 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Altitude of gage is 6,950 ft (2,118 m), from topographic map. Oct. 1, 1960, to Sept. 30, 1963, crest-stage gage at same site and datum.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--17 years, 0.056 ft^3/s (0.0016 m^3/s), 41 acre-ft/yr (50,550 m^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 179 ft^3/s (5.07 m^3/s) Aug. 24, 1961, gage height, 8.2 ft (2.50 m), from floodmarks, on basis of computations of flow through culvert; no flow most of time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 0.34 ft^3/s (0.010 m^3/s) July 31, gage height, 1.08 (0.329 m); maximum gage height recorded 1.14 ft (0.347 m) Nov. 14, 15 (backwater from ice); no flow Nov. 17 to Mar. 28, July 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.01	.00	.00	.00	.00	.01	.03	.09	.11	.04	.01
2	.01	.02	.00	.00	.00	.00	.01	.03	.09	.10	.03	.01
3	.01	.02	.00	.00	.00	.00	.01	.05	.13	.08	.03	.01
4	.01	.01	.00	.00	.00	.00	.03	.05	.13	.08	.03	.01
5	.01	.02	.00	.00	.00	.00	.03	.04	.12	.05	.03	.01
6	.01	.02	.00	.00	.00	.00	.03	.04	.12	.05	.04	.01
7	.01	.01	.00	.00	.00	.00	.03	.05	.12	.04	.04	.03
8	.02	.01	.00	.00	.00	.00	.06	.04	.12	.04	.03	.02
9	.02	.02	.00	.00	.00	.00	.08	.05	.13	.06	.03	.01
10	.02	.02	.00	.00	.00	.00	.06	.05	.13	.04	.02	.01
11	.02	.02	.00	.00	.00	.00	.05	.06	.12	.02	.02	.02
12	.02	.02	.00	.00	.00	.00	.05	.07	.12	.01	.03	.02
13	.02	.02	.00	.00	.00	.00	.05	.07	.12	.02	.03	.01
14	.02	.02	.00	.00	.00	.00	.06	.08	.11	.00	.03	.01
15	.02	.02	.00	.00	.00	.00	.05	.07	.12	.04	.02	.02
16	.03	.01	.00	.00	.00	.00	.05	.06	.10	.05	.02	.03
17	.03	.00	.00	.00	.00	.00	.05	.06	.09	.01	.02	.03
18	.03	.00	.00	.00	.00	.00	.05	.06	.07	.02	.01	.03
19	.03	.00	.00	.00	.00	.00	.05	.05	.07	.03	.01	.03
20	.04	.00	.00	.00	.00	.00	.05	.06	.06	.03	.01	.03
21	.02	.00	.00	.00	.00	.00	.06	.06	.07	.04	.01	.02
22	.02	.00	.00	.00	.00	.00	.06	.06	.06	.02	.01	.02
23	.02	.00	.00	.00	.00	.00	.06	.06	.07	.03	.01	.02
24	.02	.00	.00	.00	.00	.00	.05	.05	.06	.03	.01	.03
25	.01	.00	.00	.00	.00	.00	.05	.09	.04	.01	.01	.02
26	.02	.00	.00	.00	.00	.00	.04	.08	.05	.02	.01	.02
27	.02	.00	.00	.00	.00	.00	.04	.07	.07	.01	.01	.02
28	.02	.00	.00	.00	.00	.00	.04	.09	.05	.01	.01	.02
29	.02	.00	.00	.00	.00	.02	.03	.10	.06	.02	.01	.02
30	.02	.00	.00	.00	---	.01	.03	.10	.06	.02	.01	.02
31	.02	---	.00	.00	---	.01	---	.10	---	.03	.02	---
TOTAL	.60	.27	.00	.00	.00	.04	1.32	1.93	2.75	1.12	.64	.57
MEAN	.019	.009	.000	.000	.000	.001	.044	.062	.092	.036	.021	.019
MAX	.04	.02	.00	.00	.00	.02	.08	.10	.13	.11	.04	.03
MIN	.01	.00	.00	.00	.00	.00	.01	.03	.04	.00	.01	.01
AC-FT	1.2	.5	.00	.00	.00	.08	2.6	3.8	5.5	2.2	1.3	1.1

CAL YR 1979 TOTAL 24.22 MEAN .066 MAX .39 MIN .00 AC-FT 48
WTR YR 1980 TOTAL 9.24 MEAN .025 MAX .13 MIN .00 AC-FT 18

10249900 CHIATOVICH CREEK NEAR DYER, NV
(National stream-quality accounting network station)

LOCATION.--Lat 37°50'00", long 118°12'10", in NE¼NE¼ sec.28, T.1 S., R.34 E., Esmeralda County, Hydrologic Unit 16060010, on left bank 300 ft (90 m) downstream from Middle Creek, 5 mi (8 km) west of State Highway 3A, and 10 mi (16 km) northwest of Dyer.

DRAINAGE AREA.--37.3 mi^2 (96.6 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1960 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,350 ft (1,935 m), from topographic map.

REMARKS.--Records good. No diversions above station.

AVERAGE DISCHARGE.--20 years, 8.77 ft^3/s (0.248 m^3/s), 6,350 acre-ft/yr (7.83 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 527 ft^3/s (14.9 m^3/s) July 31, 1965, gage height, about 5.0 ft (1.52 m), on basis of slope-area measurement of peak flow; minimum, 1.0 ft^3/s (0.028 m^3/s) Feb. 18, 1961, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 20 ft^3/s (0.57 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 12	1200	23	0.65	* 1.54	0.469	July 20	1000	* 26	0.74	1.49	0.454
July 6	0800	23	0.65	1.42	0.433	Sept. 7	1700	25	0.71	1.31	0.399

Minimum daily discharge, 5.6 ft^3/s (0.16 m^3/s) Dec. 12, result of freeze-up.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.2	9.0	8.4	8.1	7.3	7.6	7.0	8.6	9.4	19	18	17
2	8.7	9.2	8.3	7.8	7.5	7.7	7.2	8.6	9.4	18	18	17
3	8.5	9.2	8.4	7.8	7.5	7.8	7.2	9.1	9.1	21	17	17
4	8.6	9.2	8.4	8.1	7.5	7.4	7.2	9.1	9.1	21	17	17
5	8.5	9.0	8.1	8.1	8.1	7.4	7.0	8.7	9.1	21	18	16
6	8.5	9.1	7.7	8.1	7.8	7.4	7.0	8.3	9.5	20	18	17
7	8.6	9.1	7.7	8.1	7.2	7.3	7.0	8.4	9.5	18	18	18
8	8.5	9.2	7.8	7.8	7.2	7.2	7.2	8.3	9.6	20	19	17
9	8.5	9.0	7.8	8.1	6.6	7.2	7.2	8.1	9.8	16	18	17
10	8.4	8.8	7.8	7.5	7.4	7.2	7.2	8.1	9.9	14	18	16
11	8.6	8.9	5.7	8.4	7.8	7.2	7.2	8.1	10	14	19	15
12	8.4	8.8	5.6	13	7.7	7.1	7.2	8.1	10	15	18	14
13	8.8	8.9	5.8	8.1	7.9	7.0	7.5	8.1	10	15	18	15
14	9.5	8.8	6.7	7.5	7.7	7.0	7.8	9.4	10	15	18	14
15	9.5	8.8	7.5	7.0	7.8	6.9	7.8	8.7	10	15	18	14
16	9.5	8.9	7.5	6.7	7.5	6.9	7.8	8.7	11	16	18	13
17	9.5	9.0	7.6	6.7	8.4	6.9	7.8	8.4	11	17	19	13
18	9.5	8.7	7.8	6.7	9.1	6.8	7.8	8.4	11	17	20	13
19	9.1	7.3	7.8	7.2	8.1	7.2	7.8	8.7	11	20	20	13
20	9.4	7.0	7.5	7.5	8.0	7.2	7.8	8.4	11	23	20	13
21	8.7	7.4	7.8	7.6	8.0	7.0	7.8	8.7	11	23	20	13
22	9.0	8.0	7.5	7.2	7.9	6.7	7.8	8.7	12	20	19	13
23	9.3	8.8	8.7	7.5	7.9	6.7	7.8	9.1	12	23	19	13
24	9.2	9.3	8.4	7.5	7.7	6.4	8.1	8.7	12	23	19	13
25	9.1	8.9	8.1	7.5	7.7	7.5	7.8	9.4	13	20	19	13
26	9.1	8.6	8.1	7.5	7.8	7.5	8.2	9.1	13	19	19	13
27	9.0	8.2	7.8	7.5	7.8	7.0	8.1	8.8	13	20	19	13
28	9.1	8.4	8.1	7.3	7.7	7.2	8.2	9.4	14	22	18	13
29	8.9	8.5	8.1	7.2	7.6	7.2	7.8	9.1	15	23	18	13
30	8.8	8.4	8.1	6.4	---	7.0	7.7	10	17	22	18	13
31	9.3	---	8.1	6.8	---	7.2	---	10	---	20	18	---
TOTAL	277.3	260.4	238.7	238.3	224.2	221.8	227.0	271.3	331.4	590	573	436
MEAN	8.95	8.68	7.70	7.69	7.73	7.15	7.57	8.75	11.0	19.0	18.5	14.5
MAX	9.5	9.3	8.7	13	9.1	7.8	8.2	10	17	23	20	18
MIN	8.4	7.0	5.6	6.4	6.6	6.4	7.0	8.1	9.1	14	17	13
AC-FT	550	517	473	473	445	440	450	538	657	1170	1140	865

CAL YR 1979 TOTAL 3293.0 MEAN 9.02 MAX 14 MIN 5.6 AC-FT 6530
WTR YR 1980 TOTAL 3889.4 MEAN 10.6 MAX 23 MIN 5.6 AC-FT 7710

10249900 CHIATOVICH CREEK NEAR DYER, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 1960 to current year.
CHEMICAL ANALYSES: October 1974 to current year, monthly.
SPECIFIC CONDUCTANCES: October 1974 to March 1975, monthly; April 1975 to current year, once-daily.
BIOLOGICAL DATA: January 1975 to September 1977, monthly; October 1977 to current year, monthly (seasonal).
MICROBIOLOGICAL AND SEDIMENT DATA: January 1975 to current year, monthly.
WATER TEMPERATURES: September 1960 to March 1975, monthly; April 1975 to current year, once-daily.

REMARKS.--Daily sampling and temperature measurement are done approximately 100 ft upstream from State Highway 3A, in NW¼SW¼ sec.28, T.1 S, R.35 E. Water temperatures at daily site are as much as 4.0°C greater than those at gage (on basis of monthly data for March 1975 to September 1976); greatest differences occur during summer. Specific conductance is not significantly different at the two sites. No daily specific-conductance or water-temperature data available for some months during current year.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 82 micromhos Mar. 21, 1977; minimum, 48 micromhos July 21, 1980.
PHYTOPLANKTON: Maximum, 3,200 cells/mL Sept. 18, 1975; minimum, 13 cells/mL Aug. 20, 1980.
FECAL STREPTOCOCCI: Maximum, 600 colonies/100 mL Sept. 18, 1975; minimum, 2 colonies/100 mL (non-ideal colony count) Feb. 24, 1976, and Mar. 17, 1980.
WATER TEMPERATURES: Maximum, 36.5°C July 14, 1965; minimum, freezing point on several days during winter months of some years.
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 195 mg/L June 27, 1978; minimum, 13 mg/L Feb. 6, and Dec. 18, 1975, and Feb. 13, 1977.

EXTREMES FOR CURRENT YEAR (MEASUREMENTS AT LEAST ONCE-DAILY).--
SPECIFIC CONDUCTANCES: Maximum, 66 micromhos May 6; minimum, 49 micromhos on several days in June and July 22.
WATER TEMPERATURES: Maximum, 19.0°C June 20 and 21; minimum, freezing point on Jan. 20 and 31.

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)
OCT 22...	1330	9.5	54	7.9	4.0	1.6	9.9	K31	50	20
NOV 26...	1300	8.4	59	7.6	4.5	1.7	10.0	K12	K22	22
DEC 17...	1200	7.6	61	7.7	1.5	1.5	10.3	K6	K6	20
JAN 21...	1240	9.2	58	7.3	.0	3.6	11.1	K3	K33	19
FEB 19...	1325	8.4	60	7.5	4.0	2.5	10.2	K2	K15	22
MAR 17...	1400	7.8	61	7.5	5.5	3.6	9.8	<2	K2	20
APR 22...	1430	7.9	61	8.0	5.0	1.6	9.6	<2	K25	22
MAY 19...	1225	8.7	64	8.0	13.0	2.9	8.5	K2	K28	22
JUN 23...	1310	12	55	7.9	13.0	3.2	8.0	K16	130	20
JUL 21...	1255	22	48	--	13.5	4.9	8.2	42	260	17
AUG 20...	0910	20	51	7.4	7.5	3.3	9.3	50	120	18
SEP 18...	1230	13	56	7.6	11.0	2.5	8.4	87	73	20

K: NON-IDEAL COLONY COUNT.

10249900 CHIATOVICH CREEK NEAR DYER, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)
OCT 22...	1330	7.2	.6	3.5	.3	1.0	34	0	28
NOV 26...	1300	7.4	.8	3.4	.3	1.1	33	0	27
DEC 17...	1200	6.9	.7	3.3	.3	.8	33	0	27
JAN 21...	1240	6.6	.6	3.5	.4	.9	31	0	25
FEB 19...	1325	7.7	.7	3.7	.3	1.0	34	0	28
MAR 17...	1400	7.0	.5	3.5	.3	.9	32	0	26
APR 22...	1430	7.6	.8	3.6	.3	.9	30	0	25
MAY 19...	1225	7.5	.7	3.4	.3	.9	34	0	28
JUN 23...	1310	7.0	.5	3.4	.3	.7	32	0	26
JUL 21...	1255	6.0	.6	2.9	.3	.8	--	--	--
AUG 20...	0910	6.3	.5	2.5	.3	.7	28	0	26
SEP 18...	1230	7.0	.6	3.3	.3	.8	31	0	25

DATE	TIME	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)
OCT 22...	1330	3.3	.8	.2	17	47	51	1.21
NOV 26...	1300	2.8	.7	.2	16	53	49	1.39
DEC 17...	1200	3.5	.5	.2	17	48	50	.87
JAN 21...	1240	1.7	.7	.2	17	42	47	1.04
FEB 19...	1325	1.1	.7	.3	17	45	49	1.02
MAR 17...	1400	2.4	.6	.2	17	53	48	1.12
APR 22...	1430	1.7	.6	.3	17	51	48	1.09
MAY 19...	1225	1.5	.5	.3	17	52	49	1.22
JUN 23...	1310	1.4	.1	.2	16	46	48	1.49
JUL 21...	1255	2.9	.7	.3	14	33	--	1.96
AUG 20...	0910	--	.6	.2	15	42	--	2.27
SEP 18...	1230	2.9	.5	.2	16	43	46	1.51

10249900 CHIATOVICH CREEK NEAR DYER, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)
OCT 22...	1330	.00	.010	.00	.080	.000	.19	.20
NOV 26...	1300	.00	.000	.00	.010	.000	.77	.31
DEC 17...	1200	.12	.010	.12	.000	.040	.42	.19
JAN 21...	1240	.10	.020	.10	.010	.010	.28	--
FEB 19...	1325	.11	.000	.10	.040	.040	.42	.27
MAR 17...	1400	.08	.000	.06	.000	.000	.44	.27
APR 22...	1430	.08	.000	.12	.060	.040	--	--
MAY 19...	1225	.03	.000	.05	.000	.000	.45	.40
JUN 23...	1310	.00	.000	.03	--	.080	--	.29
JUL 21...	1255	.00	.000	.00	.010	.000	.86	.35
AUG 20...	0910	.01	.010	.02	.000	.000	.16	.01
SEP 18...	1230	.00	.000	.00	.000	.010	.10	.00

DATE	TIME	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED (MG/L AS C)
OCT 22...	1330	.27	.20	.010	.010	--	2.6	.2
NOV 26...	1300	.78	.31	.010	.000	2.6	--	--
DEC 17...	1200	.55	.35	.010	.010	2.2	--	--
JAN 21...	1240	.41	--	.030	.000	--	1.5	1.4
FEB 19...	1325	.57	.41	.040	.040	5.6	--	--
MAR 17...	1400	.52	.33	.040	.010	8.1	--	--
APR 22...	1430	--	--	.000	.020	--	3.2	--
MAY 19...	1225	.48	.45	.030	.010	5.8	--	--
JUN 23...	1310	.44	.40	.000	.000	4.6	--	--
JUL 21...	1255	.87	.35	.040	.030	--	1.9	1.3
AUG 20...	0910	.18	.03	.010	.010	5.0	--	--
SEP 18...	1230	.10	.00	.040	.020	2.9	--	--

10249900 CHIATOVICH CREEK NEAR DYER, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	ARSENIC, TOTAL (UG/L AS AS)	ARSENIC, DIS-SOLVED (UG/L AS AS)	BARIUM, TOTAL (UG/L AS BA)	BARIUM, DIS-SOLVED (UG/L AS BA)	CADMIUM, TOTAL (UG/L AS CD)	CADMIUM, DIS-SOLVED (UG/L AS CD)	CHRO-MIUM TOTAL (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, TOTAL (UG/L AS CO)	COBALT, DIS-SOLVED (UG/L AS CO)
OCT											
22...	1330	1	1	200	20	0	<1	0	0	0	<3
JAN											
21...	1240	1	0	100	10	0	<1	0	0	1	<3
APR											
22...	1430	1	0	200	20	1	1	0	0	0	<3
JUL											
21...	1255	2	3	--	20	0	2	20	0	2	<3

DATE	TIME	COPPER, TOTAL (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)
OCT							
22...	1330	8	0	420	100	4	0
JAN							
21...	1240	7	0	420	60	3	1
APR							
22...	1430	7	3	810	480	10	3
JUL							
21...	1255	2	0	1100	60	6	2

DATE	TIME	MANGA-NESE, TOTAL (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	NICKEL, TOTAL (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)
OCT							
22...	1330	30	3	--	.0	2	0
JAN							
21...	1240	20	2	.0	.0	7	0
APR							
22...	1430	20	20	.0	.0	2	0
JUL							
21...	1255	50	8	.1	.0	4	0

DATE	TIME	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, TOTAL (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT							
22...	1330	0	0	0	0	--	4
DEC							
17...	1200	--	--	0	--	--	--
JAN							
21...	1240	0	0	0	0	20	4
MAR							
17...	1400	--	--	2	--	--	--
APR							
22...	1430	0	0	0	0	20	4
JUN							
23...	1310	--	--	0	--	--	--
JUL							
21...	1255	0	0	1	0	10	7
SEP							
18...	1230	--	--	0	--	--	--

10249900 CHIATOVICH CREEK NEAR DYER, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE	NOV 26,79	MAR 17,80	MAY 19,80	JUN 23,80
TIME	1300	1400	1225	1310
TOTAL CELLS/ML	110	560	52	90
DIVERSITY: DIVISION	1.0	0.6	0.0	0.0
.CLASS	1.0	0.6	0.0	0.0
..ORDER	1.4	0.6	0.0	0.0
...FAMILY	2.4	0.9	0.8	1.0
....GENUS	2.5	0.9	0.8	1.4

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...CHLOROCOCCACEAE								
....CHLOROCOCCUM	5	5	--	-	--	-	--	-
...COELASTRACEAE								
....COELASTRUM	40#	36	--	-	--	-	--	-
...SCENEDESMACEAE								
....SCENEDESMUS	--	-	--	-	--	-	--	-
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	15	14	--	-	--	-	--	-
..PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	10	9	13	2	--	-	26#	29
....COCCONEIS	--	-	--	-	--	-	13	14
....RHOICOSPHENIA	5	5	--	-	--	-	--	-
...CYMBELLACEAE								
....CYMBELLA	--	-	--	-	--	-	--	-
...NAVICULACEAE								
....NAVICULA	15	14	52	9	13#	25	51#	57
...NITZSCHIACEAE								
....DENTICULA	--	-	--	-	--	-	--	-
....NITZSCHIA	20#	18	26	5	39#	75	--	-
CRYPTOPHYTA (CRYPTOMONADS)								
.CRYPTOPHYCEAE								
..CRYPTOMONADALES								
...CRYPTOMONADACEAE								
....CRYPTOMONAS	--	-	--	-	-	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..HORMOGONALES								
...OSCILLATORIACEAE								
....OSCILLATORIA	--	-	470#	84	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

10249900 CHIATOVICH CREEK NEAR DYER, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

	JUL 21,80	AUG 20,80	SEP 18,80
TIME	1255	0910	1230
TOTAL CELLS/ML	150	13	250
DIVERSITY: DIVISION	0.9	0.0	1.1
.CLASS	0.9	0.0	1.1
..ORDER	0.9	0.0	1.1
...FAMILY	1.6	0.0	2.3
....GENUS	1.8	0.0	2.5

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)						
.CHLOROPHYCEAE						
..CHLOROCOCCALES						
...CHLOROCOCCACEAE						
....CHLOROCOCCUM	--	-	--	-	--	-
...COELASTRACEAE						
....COELASTRUM	--	-	--	-	--	-
...SCENEDESMACEAE						
....SCENEDESMUS	51#	33	--	-	--	-
CHRYSOPHYTA						
.BACILLARIOPHYCEAE						
..CENTRALES						
...COSCINODISCACEAE						
....CYCLOTELLA	--	-	--	-	--	-
..PENNALES						
...ACHNANTHACEAE						
....ACHNANTHES	--	-	--	-	69#	28
....COCCONEIS	--	-	--	-	14	6
....RHOICOSPHENIA	--	-	--	-	--	-
...CYMBELLACEAE						
....CYMBELLA	--	-	--	-	14	6
...NAVICULACEAE						
....NAVICULA	64#	42	13#	100	28	11
...NITZSCHIACEAE						
....DENTICULA	13	8	--	-	--	-
....NITZSCHIA	26#	17	--	-	41#	17
CRYPTOPHYTA (CRYPTOMONADS)						
.CRYPTOPHYCEAE						
..CRYPTOMONADALES						
...CRYPTOMONADACEAE						
....CRYPTOMONAS	--	-	--	-	14	6
CYANOPHYTA (BLUE-GREEN ALGAE)						
.CYANOPHYCEAE						
..HORMOGONALES						
...OSCILLATORIACEAE						
....OSCILLATORIA	--	-	--	-	69#	28

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

PERIPHYTON

RETRIEVAL DATE	LENGTH OF EXPOSURE POLYETHYLENE STRIP (DAYS)	BIOMASS (G/M^2) DRY WEIGHT	BIOMASS (G/M^2) ASH WEIGHT	CHLOROPHYLL A (MG/M^2)	CHLOROPHYLL B (MG/M^2)
Nov 26	35	.160	.160	.490	.040
Feb 19	29	.000	.000	.000	.000
Aug 20	30	.236	.236	.000	.000

BEST DOCUMENT AVAILABLE

10249900 CHIATOVICH CREEK NEAR DYER, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
OCT 22...	1330	9.5	30	.77
NOV 26...	1300	8.4	25	.65
DEC 17...	1200	7.6	16	.29
JAN 21...	1240	9.2	32	.79
FEB 19...	1325	8.4	27	.61
MAR 17...	1400	7.8	44	.93
APR 22...	1430	7.9	63	1.3
MAY 19...	1225	8.7	29	.68
JUN 23...	1310	12	55	1.8
JUL 21...	1255	22	114	6.8
AUG 20...	0910	20	97	5.2
SEP 18...	1230	13	150	5.3

10249900 CHIATOVICH CREEK NEAR DYER, NV--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58			---	58	58	62	64	62	50	58	
2	58			---	59	58	61	64	63	50	52	
3	57			---	58	58	61	64	61	50	52	
4	58			---	58	60	61	65	61	57	52	
5	59			---	58	60	61	64	60	57	52	
6	57			---	60	58	60	66	59	51	52	
7	---			---	57	58	61	64	59	50	51	
8	56			---	57	58	60	63	59	54	50	
9	57			---	57	58	61	63	59	50	52	
10	57			---	56	58	61	63	60	54	55	
11	56			61	56	60	61	62	59	50	55	
12	56			61	58	58	61	63	60	54	55	
13	57			61	57	60	61	63	58	50	52	
14	57			61	58	58	61	64	56	---	55	
15	56			59	58	58	61	64	55	54	55	
16	59			59	58	58	61	64	53	50	55	
17	57			56	58	59	61	65	52	50	56	
18	57			58	60	60	61	64	51	50	58	
19	60			58	59	58	61	62	49	54	55	
20	60			60	58	60	61	61	49	60	56	
21	59			56	58	60	61	62	52	54	55	
22	58			56	58	59	60	62	51	49	55	
23	61			57	59	59	60	62	49	55	55	
24	58			57	59	60	61	62	49	50	57	
25	57			58	59	60	61	62	49	57	57	
26	---			58	59	58	61	63	49	54	56	
27	---			58	59	59	61	62	49	55	55	
28	---			58	60	59	61	63	49	50	55	
29	---			58	60	58	---	61	49	50	56	
30	---			58	---	60	61	61	49	50	55	
31	---			57	---	60	---	63	---	55	56	
MEAN	58			58	58	59	61	63	55	52	55	

WTR YR 1980 MEAN 58 MAX 66 MIN 49

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.5			---	4.0	7.0	7.0	15.0	13.0	15.0	15.5	
2	14.5			---	4.5	8.0	7.0	15.0	13.0	15.5	15.5	
3	14.5			---	5.0	8.0	7.0	15.0	14.0	15.5	15.0	
4	15.0			---	6.0	7.0	6.0	13.0	15.0	15.0	15.5	
5	15.0			---	7.0	7.0	8.0	15.0	15.0	16.0	15.0	
6	15.0			---	5.0	4.0	10.0	15.0	15.0	16.0	15.0	
7	---			---	4.0	5.0	10.0	14.0	16.0	16.0	15.0	
8	14.0			---	3.0	6.0	9.0	12.0	16.0	16.5	15.0	
9	13.0			---	2.0	7.0	13.0	14.0	15.0	16.5	15.5	
10	12.5			---	1.0	7.0	11.0	14.0	16.0	16.0	15.5	
11	12.5			9.0	3.0	7.0	11.0	14.0	17.0	16.0	15.5	
12	12.5			7.5	4.0	7.0	11.0	13.0	17.0	15.0	15.5	
13	11.5			7.5	3.0	8.0	12.0	15.0	18.0	15.0	15.0	
14	11.5			7.0	5.0	8.0	14.0	15.0	18.0	---	15.0	
15	12.5			5.0	6.0	7.0	16.0	16.0	18.0	15.5	14.5	
16	12.5			5.5	6.0	7.0	15.0	15.0	18.0	15.5	14.5	
17	12.0			5.0	6.0	6.0	12.0	15.0	18.0	15.5	14.5	
18	10.5			1.0	6.0	4.0	14.0	14.0	18.0	15.5	14.0	
19	10.0			1.0	5.0	6.0	16.0	14.0	18.0	15.0	14.0	
20	9.5			.0	6.0	5.0	14.0	14.0	19.0	15.0	15.5	
21	7.0			1.0	6.0	5.0	10.0	14.0	19.0	16.5	15.5	
22	7.0			1.0	3.0	4.0	13.0	15.0	18.0	16.0	15.5	
23	7.5			1.0	5.0	5.0	10.0	14.0	18.0	16.0	15.5	
24	9.0			2.0	6.0	8.0	13.0	13.0	17.0	16.5	15.0	
25	9.0			5.0	7.0	7.0	14.0	13.0	17.0	15.5	15.0	
26	---			5.0	7.0	9.0	15.0	12.0	18.0	15.0	15.0	
27	---			5.0	8.0	7.0	15.0	12.0	18.0	15.0	14.5	
28	---			3.0	7.0	7.0	15.0	13.0	18.0	15.0	14.0	
29	---			4.5	7.0	7.0	---	12.0	18.0	16.0	14.5	
30	---			1.0	---	7.0	15.0	12.0	17.0	16.5	14.5	
31	---			.0	---	7.0	---	13.0	---	16.5	14.0	
MEAN	12.0			3.5	5.0	6.5	12.0	14.0	17.0	15.5	15.0	

WTR YR 1980 MEAN 11.5 MAX 19.0 MIN .0

10251890 PEAK SPRING CANYON CREEK NEAR CHARLESTON PEAK, NV

LOCATION.--Lat 36°14'40", long 115°43'09", in SW¼NE¼ sec.6, T.20 S., R.56 E., Clark County, Hydrologic Unit 16060015, on left bank 200 ft (61 m) upstream of Carpenter Road, 11 mi (18 km) east of State Highway 16, and 14.5 mi (23.3 km) east of Pahrump.

DRAINAGE AREA.--3.09 mi^2 (8.00 km^2).

PERIOD OF RECORD.--November 1977 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,900 ft (2,100 m), from topographic map.

REMARKS.--Records good except those for winter months which are fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 28 ft^3/s (0.79 m^3/s) May 14, 1978, gage height, 8.11 ft (2.472 m); minimum 0.20 ft^3/s (0.006 m^3/s) Dec. 21, 1977, Jan. 26, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 18 ft^3/s (0.51 m^3/s) May 20, gage height, 8.01 ft (2.441 m); minimum 0.33 ft^3/s (0.009 m^3/s) Dec. 15 - 17, Jan. 1 - 6, result of freeze-up.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.78	.67	.45	.33	.56	3.0	3.7	8.9	6.2	5.7	2.3	1.3
2	.78	.65	.45	.33	.73	2.7	3.3	8.2	6.5	5.7	2.3	1.3
3	.78	.64	.45	.33	.73	2.4	2.8	7.5	8.2	5.1	2.2	1.3
4	.77	.65	.44	.33	.74	2.0	2.6	8.2	10	4.6	2.2	1.2
5	.76	.61	.45	.33	.83	2.0	2.8	9.7	10	4.2	2.2	1.3
6	.76	.61	.45	.33	.93	1.9	3.1	10	10	3.9	2.0	1.3
7	.75	.61	.45	.34	.93	1.7	4.2	13	10	3.7	2.0	1.3
8	.76	.61	.43	.35	.83	1.6	4.6	13	11	3.5	2.0	1.3
9	.73	.61	.41	.42	.73	1.6	5.9	14	12	3.3	2.0	1.2
10	.72	.59	.45	.36	.67	1.6	7.8	12	13	3.1	1.9	1.2
11	.72	.55	.47	.42	.67	1.8	7.8	10	12	3.0	1.9	1.2
12	.72	.55	.44	.47	.67	2.0	6.8	8.2	10	2.8	1.8	1.2
13	.72	.55	.39	.54	.71	2.2	7.2	7.2	10	2.8	1.8	1.2
14	.73	.55	.35	.59	1.1	2.5	8.5	6.5	9.3	2.6	1.8	1.1
15	.72	.54	.33	.48	.96	2.7	10	5.9	9.3	2.5	1.8	1.1
16	.71	.53	.33	.45	.93	2.7	10	5.7	9.3	2.5	1.8	1.1
17	.71	.55	.33	.46	1.1	2.8	12	6.5	8.9	2.3	1.7	1.1
18	.70	.55	.35	.45	3.5	3.0	14	9.3	9.3	2.3	1.7	1.0
19	.72	.55	.36	.40	2.8	2.8	15	12	9.3	2.3	1.7	1.0
20	.73	.57	.35	.38	1.9	2.7	16	15	8.5	2.2	1.7	1.0
21	.71	.57	.41	.39	1.6	3.0	16	16	7.5	2.2	1.7	1.0
22	.70	.52	.40	.40	1.4	2.8	12	15	6.8	2.0	1.7	.96
23	.67	.44	.40	.40	1.4	2.6	10	13	6.5	2.5	1.7	.96
24	.66	.44	.38	.40	1.5	2.6	8.2	10	5.9	3.0	1.5	.88
25	.65	.45	.37	.45	1.5	2.5	7.8	9.3	5.4	2.8	1.5	.88
26	.66	.47	.39	.46	2.0	2.2	9.7	8.2	5.1	2.6	1.5	.88
27	.64	.46	.39	.45	2.6	2.2	12	7.2	4.9	2.6	1.5	.88
28	.65	.45	.39	.45	3.1	2.3	13	6.5	4.9	2.6	1.4	.88
29	.67	.45	.37	2.3	3.0	2.3	10	5.9	4.9	2.5	1.4	.88
30	.67	.45	.35	.46	---	3.0	10	5.7	5.1	2.5	1.4	.81
31	.67	---	.34	.46	---	3.5	---	5.7	---	2.3	1.4	---
TOTAL	22.12	16.44	12.32	14.71	40.12	74.7	256.8	293.3	249.8	95.7	55.5	32.71
MEAN	.71	.55	.40	.47	1.38	2.41	8.56	9.46	8.33	3.09	1.79	1.09
MAX	.78	.67	.47	2.3	3.5	3.5	16	16	13	5.7	2.3	1.3
MIN	.64	.44	.33	.33	.56	1.6	2.6	5.7	4.9	2.0	1.4	.81
AC-FT	44	33	24	29	80	148	509	582	495	190	110	65

CAL YR 1979 TOTAL 933.24 MEAN 2.56 MAX 13 MIN .33 AC-FT 1850
WTR YR 1980 TOTAL 1164.22 MEAN 3.18 MAX 16 MIN .33 AC-FT 2310

10288500 WALKER LAKE NEAR HAWTHORNE, NV

LOCATION.--Lat 38°35'05", long 118°42'15", in NE¼NE¼ sec.2, T.8 N., R.29 E., Mineral County, Hydrologic Unit 16050304, 5.5 mi (8.8 km) northwest of Hawthorne.

PERIOD OF RECORD.--August 1928 to current year. Occasional readings prior to August 1928.

DRAINAGE AREA.--4,050 mi^2 (10,500 km^2), approximately.

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929 (U.S. Coast and Geodetic Survey bench mark at U.S. Army Depot).

REMARKS.--Elevations determined from reference points referred to U.S.C. and G.S. bench mark. Elevations are given to the nearest 0.1 ft and contents to 4 significant figures in order to reflect trends of change. Any single observation, however, may be affected by wind and seiche movements on the lake surface. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 6,955,000 acre-ft (8.58 km^3) Mar. 13, 1928, elevation, 4,051.8 ft (1,234.99 m), Indian Service; minimum observed, 2,410,000 acre-ft (2.97 km^3) Nov. 26, 1979 to Feb. 19, 1980, elevation, 3,954.0 ft (1,205.18 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--An elevation of 4,078.0 ft (1,242.97 m), adjustment of 1912, was observed Sept. 27, 1908, by Geological Survey (contents, 8,622,000 acre-ft or 10.6 km^3, table now in use).

MONTHEND ELEVATIONS AND TOTAL CONTENTS, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sep. 30	3,955.0	2,445,000	--
Oct. 31	3,954.5	2,428,000	-17,000
Nov. 30	3,954.0	2,410,000	-18,000
Dec. 31	3,954.0	2,410,000	0
CAL YR 1979	--	--	-71,000
Jan. 31	3,954.0	2,410,000	0
Feb. 29	3,954.1	2,414,000	+4,000
Mar. 31	3,954.4	2,424,000	+10,000
Apr. 30	3,954.7	2,435,000	+11,000
May 31	3,955.3	2,456,000	+21,000
June 30	3,955.8	2,474,000	+18,000
July 31	3,956.8	2,509,000	+35,000
Aug. 31	3,956.7	2,506,000	-3,000
Sep. 30	3,956.5	2,498,000	-8,000
WTR YR 1979-80	--	--	+53,000

NOTE: Monthend elevations are interpolated from readings made during the month.

10290300 UPPER TWIN LAKE NEAR BRIDGEPORT, CA

LOCATION.--Lat 38°09'15", long 119°20'58", in NW¼NE¼ sec.5, T.3 N., R.24 E., Mono County, Hydrologic Unit 16050301, in Toiyabe National Forest, at outlet of upper lake dam on Robinson Creek and 10 mi (16 km) southwest of Bridgeport.

DRAINAGE AREA.--29.5 mi^2 (76.4 km^2).

PERIOD OF RECORD.--December 1961 to February 1964, September 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (project datum of U.S. Indian Irrigation Service).

REMARKS.--Contents regulated by dam at outlet. Figures given herein represent usable contents. Usable contents, 2,070 acre-ft (2.55 hm^3) between elevations 7,200 ft (2,194.6 m) natural rim, and 7,207 ft (2,196.7 m), spillway crest.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 2,920 acre-ft (3.60 hm^3) July 2, 1980, elevation, 7,209.65 ft (2,197.501 m); minimum observed, 62 acre-ft (76,400 m^3) Oct. 31, Nov. 1, 1964, elevation, 7,200.22 ft (2,194.627 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--No contents observed Oct. 17, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 2,920 acre-ft (3.60 hm^3) July 2, elevation, 7,209.65 ft (2,197.501 m); minimum, 1,410 acre-ft (1.74 hm^3) Oct. 25, elevation, 7,204.91 ft (2,196.057 m).

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sep. 30	7,206.68	1,970	--
Oct. 31	7,205.02	1,450	-520
Nov. 30	7,207.55	2,250	+800
Dec. 31	7,207.53	2,240	-10
CAL YR 1979	--	--	+100
Jan. 31	--	g2,250	+10
Feb. 29	--	g2,260	+10
Mar. 31	--	g2,270	+10
Apr. 30	7,208.14	2,430	+160
May 31	7,208.38	2,510	+80
June 30	7,209.58	2,900	+390
July 31	7,208.85	2,660	-240
Aug. 31	7,207.75	2,310	-350
Sep. 30	7,207.52	2,240	-70
WTR YR 1979-80	--	--	+270

g Interpolated.

10290400 LOWER TWIN LAKE NEAR BRIDGEPORT, CA

LOCATION.--Lat 38°10'05", long 119°19'33", in NE¼NE¼ sec.33, T.4 N., R.24 E.,,Mono County, Hydrologic Unit 16050301, in Toiyabe National Forest, at outlet of lower lake dam on Robinson Creek and 8 mi (13 km) southwest of Bridgeport.

DRAINAGE AREA.--38.9 mi^2 (100.8 km^2).

PERIOD OF RECORD.--December 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (project datum of U.S. Indian Irrigation Service).

REMARKS.--Contents regulated by dam at outlet and by Upper Twin Lake. Figures given herein represent usable contents. Usable contents, 4,010 acre-ft (4.94 hm^3) between elevations 7,190 ft (2,192 m) natural rim, and 7,200 ft (2,195 m), spillway crest. One transarea diversion out of Tamarack Creek into Summers Creek.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 5,490 acre-ft (6.77 hm^3) June 6, 1969, elevation, 7,203.51 ft (2,195.630 m); no contents Nov. 17, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 5,290 acre-ft (6.52 hm^3) July 2, elevation, 7,202.97 ft (2,195.465 m); minimum, 932 acre-ft (1.15 hm^3) Oct. 11-15, elevation 7,192.33 ft (2,192.222 m).

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sep. 30	7,192.37	948	--
Oct. 31	7,193.97	1,590	+642
Nov. 30	7,194.16	1,660	+70
Dec. 31	7,197.12	2,850	+1,190
CAL YR 1979	--	--	-940
Jan. 31	7,200.64	4,280	+1,430
Feb. 29	7,200.66	4,290	+10
Mar. 31	7,200.54	4,240	-50
Apr. 30	7,199.65	3,870	-370
May 31	7,200.52	4,230	+360
June 30	7,202.40	5,040	+810
July 31	7,201.75	4,760	-280
Aug. 31	7,197.36	2,940	-1,820
Sep. 30	7,196.99	2,800	-140
WTR YR 1979-80	--	--	+1,852

10292500 BRIDGEPORT RESERVOIR NEAR BRIDGEPORT, CA

LOCATION.--Lat 38°19'30", long 119°12'40", in SE¼NE¼ sec.34, T.6 N., R.25 E., Mono County, Hydrologic Unit 16050301, in Toiyabe National Forest, at Bridgeport Dam on East Walker River, 4.5 mi (7.2 km) north of Bridgeport.

DRAINAGE AREA.--358 mi^2 (927 km^2).

PERIOD OF RECORD.--March 1926 to current year. Monthend contents only for some periods, published in WSP 1314.

REVISED RECORDS.--WSP 1180: 1949. WSP 1927: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (project datum).

REMARKS.--Reservoir is formed by earthfill, rock-faced dam. Storage began Dec. 8, 1923. Dam completed in November 1924. Capacity, 42,460 acre-ft (52.4 hm^3) between elevations 6,415 ft (1,955.3 m), approximate elevation of bottom of reservoir, and 6,461 ft (1,969.3 m), crest of spillway is at elevation 6,460.75 ft (1,969.237 m), however, there are four siphons that become operative prior to reaching this spillway. Elevation of sill of outlet gate, 6,412 ft (1,954.4 m). No dead storage. Figures given herein represent total contents. Water is used for irrigation by Walker River Irrigation District.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 44,880 acre-ft (55.3 hm^3) June 16, 1974, elevation, 6,460.78 ft (1,969.246 m); no contents during fall of 1929, 1930, 1960, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 41,730 acre-ft (51.5 hm^3) July 27, elevation, 6,459.75 ft (1,968,932 m); minimum, 10,260 acre-ft (12.7 hm^3), elevation, 6,444.05 ft (1,964.146 m), Oct. 8.

Capacity table, (elevation, in feet, and contents, in acre-feet)

6,443	9,100	6,451	20,620
6,445	11,380	6,455	29,160
6,447	13,990	6,461	45,490
6,449	17,060		

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10370	11630	15630	19330	32620	35540	32820	30850	33300	41410	41380	29260
2	10340	11780	15770	19480	32890	35880	32870	30950	33500	41440	41380	28720
3	10320	11940	15890	19650	33140	36200	32940	30990	33780	41120	41290	28240
4	10330	12100	16030	19810	33350	36530	32970	31160	33960	40830	41200	27760
5	10320	12250	16130	19940	33680	36790	33090	31430	34220	40740	41090	27320
6	10310	12380	16260	20090	33810	36470	33120	31430	34540	40390	40910	26880
7	10300	12530	16340	20230	34060	35910	33170	31450	34850	40060	40680	26510
8	10260	12660	16480	20360	34300	35310	33220	31520	35140	39950	40420	26310
9	10270	12780	16640	20550	34510	34690	33250	31040	35470	40030	40090	26070
10	10280	12910	16660	20700	34690	34140	33250	31040	35860	40270	39740	26000
11	10270	13050	16760	20930	34930	33430	33300	30990	36280	40480	39320	25850
12	10280	13130	16850	21990	35170	32920	33300	30850	36680	40480	38820	25720
13	10280	13270	16960	24320	35330	32770	33220	30710	37040	40420	38230	25650
14	10310	13420	17130	26380	35620	32970	33140	30680	37540	40570	37540	25340
15	10280	13530	17250	27270	35960	32970	33040	30630	38040	40650	36930	25190
16	10320	13710	17380	27960	36340	33120	32940	30360	38570	40590	36340	25080
17	10360	13800	17490	28520	37100	33140	32790	30340	38900	40570	35830	24950
18	10370	13910	17600	28880	38460	33020	32670	30100	39010	40570	35310	24840
19	10370	13980	17720	29260	38820	32920	32410	30100	39320	40620	34770	24580
20	10540	14080	17840	29570	38370	32690	32210	30240	39800	40740	34330	24390
21	10620	14160	17950	29880	37810	32640	31870	30610	40240	40880	33830	24240
22	10730	14300	18010	30190	37070	32770	31650	31090	40480	40970	33070	24100
23	10800	14450	18140	30440	36310	32820	31400	31500	40680	41170	32770	239[illegible]0
24	10910	14660	18330	30730	35470	32820	31160	31850	40710	41380	32510	23890
25	10960	14820	18390	31020	34590	32840	30970	32260	40650	41490	32130	23810
26	11050	14910	18440	31280	34300	32840	30800	32590	40650	41490	31700	23750
27	11160	15060	18530	31470	34670	32790	30970	32790	40620	41730	31260	23640
28	11160	15190	18610	31750	34950	32870	30920	32990	40680	41580	30800	23580
29	11280	15370	18730	31850	35220	32890	30830	33170	40830	41440	30410	23430
30	11390	15460	18920	32160	---	32840	30800	33350	41090	41350	30100	23330
31	11500	---	19190	32380	---	32790	---	33320	---	41380	29660	---
MAX	11500	15460	19190	32380	38820	36790	33300	33350	41090	41730	41380	29260
MIN	10260	11630	15630	19330	32620	32640	30800	30100	33300	39950	29660	23330
†	6445.10	6447.99	6450.22	6456.32	6457.42	6456.48	6455.68	6456.69	6459.53	6459.63	6455.21	6452.36
‡	+1,100	+3,960	+3,730	+13,190	+2,840	-2,430	-1,990	+2,520	+7,770	+290	-11,720	-6,330

CAL YR 1979 MAX 43310 MIN 10260 ‡ -16,880
WTR YR 1980 MAX 41730 MIN 10260 ‡ +12,930

† Elevation, in feet NGVD, at end of month.
‡ Change in contents in acre-feet.

10293000 EAST WALKER RIVER NEAR BRIDGEPORT, CA

LOCATION.--Lat 38°19'40", long 119°12'50", in SW¼NE¼ sec.34, T.6 N., R.25 E., Mono County, Hydrologic Unit 16050301, in Toiyabe National Forest, on right bank 1,500 ft (500 m) downstream from Bridgeport Reservoir, 5 mi (8 km) north of Bridgeport, and 10 mi (16 km) upstream from Sweetwater Creek.

DRAINAGE AREA.--359 mi^2 (930 km^2).

WATER-DISCHARGE RECORD

PERIOD OF RECORD.--July 1911 to September 1914 (gage heights only), October 1921 to current year.

REVISED RECORDS.--WSP 1927: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,400 ft (1,951 m) from topographic map. Prior to Oct. 1, 1921, nonrecording gage at site 0.5 mi (0.8 km) upstream at different datum. Oct. 1, 1921, to Feb. 21, 1924, water-stage recorder at site 1 mi (2 km) downstream at different datum. Feb. 22, 1924, to Sept. 30, 1931, water-stage recorder, and Oct. 1, 1931, to May 25, 1939, nonrecording gage at present site at datum 2.34 ft (0.713 m) lower.

REMARKS.--Records good. Diversions for irrigation of meadow pasture lands near Bridgeport. Flow regulated by Bridgeport Reservoir. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--57 years (1922-24, 1925-80), 139 ft^3/s (3.936 m^3/s), 100,700 acre-ft/yr (124 hm^3/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,390 ft^3/s (39.4 m^3/s) June 19, 1963, gage height, 4.64 ft (1.414 m); maximum gage height, 4.95 ft (1.509 m) Jan. 22, 1943 (top of surge); minimum daily discharge, 0.2 ft^2/s (0.006 m^3/s) Nov. 2-29, Dec. 1-22, 25-28, 1955, Jan. 17-25, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,380 ft^3/s (39.1 m^3/s) July 2, gage height, 4.55 ft (1.387 m); minimum daily, 13 ft^3/s (0.37 m^3/s) Dec. 4 to Jan. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89	15	17	13	14	24	116	437	349	1080	520	397
2	81	15	17	13	14	20	115	450	264	1180	480	400
3	76	15	15	13	14	14	115	473	247	1280	463	388
4	66	15	13	13	14	14	115	480	248	1120	436	370
5	66	15	13	13	14	34	115	503	238	947	391	355
6	66	15	13	13	14	361	116	542	231	947	403	349
7	66	15	13	13	14	419	115	560	232	813	416	335
8	66	15	13	13	14	417	122	567	232	609	400	319
9	66	15	13	13	14	416	137	578	253	504	412	289
10	66	15	13	13	14	414	147	578	268	442	440	266
11	66	15	13	13	14	412	187	552	271	474	450	249
12	66	15	13	13	14	412	210	507	251	536	470	235
13	66	16	13	14	14	201	236	486	238	561	496	228
14	66	17	13	15	14	113	262	444	239	523	514	228
15	66	17	13	14	14	113	286	431	238	532	500	224
16	66	17	13	14	14	134	297	424	480	551	470	212
17	66	17	13	14	14	177	328	424	417	511	470	212
18	66	17	13	14	15	214	374	421	469	492	463	212
19	63	17	13	14	167	215	428	409	444	493	447	212
20	54	17	13	14	489	203	456	391	454	493	450	210
21	45	17	13	14	487	141	473	394	498	478	470	212
22	44	17	13	14	586	115	470	394	590	456	466	212
23	44	17	13	14	583	115	456	397	625	464	421	203
24	44	17	13	14	578	115	428	394	665	486	384	184
25	40	17	13	14	575	116	403	394	668	528	384	180
26	34	17	13	14	316	115	370	397	663	549	384	170
27	34	17	13	14	24	115	370	376	624	553	382	170
28	34	17	13	14	24	115	387	364	600	641	384	170
29	34	17	13	14	24	115	431	364	601	656	364	178
30	21	17	13	14	---	115	437	364	707	584	352	197
31	15	---	13	14	---	116	---	365	---	545	384	---
TOTAL	1742	485	413	423	4106	5620	8502	13860	12104	20028	13466	7566
MEAN	56.2	16.2	13.3	13.6	142	181	283	447	403	646	434	252
MAX	89	17	17	15	586	419	473	578	707	1280	520	400
MIN	15	15	13	13	14	14	115	364	231	442	352	170
AC-FT	3460	962	819	839	8140	11150	16860	27490	24010	39730	26710	15010

CAL YR 1979 TOTAL 65563 MEAN 180 MAX 622 MIN 13 AC-FT 130000
WTR YR 1980 TOTAL 88315 MEAN 241 MAX 1280 MIN 13 AC-FT 175200

10293000 EAST WALKER RIVER NEAR BRIDGEPORT, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1949 to November 1952, March 1960 to current year

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)
OCT								
30...	0920	15	164	--	9.0	--	--	--
NOV								
27...	1000	17	167	--	4.0	--	--	--
DEC								
27...	1020	13	179	--	4.0	--	--	--
JAN								
29...	1010	14	--	--	4.5	--	--	--
FEB								
27...	1040	24	185	--	4.0	--	--	--
MAR								
26...	0935	115	208	--	5.5	--	--	--
APR								
28...	1025	418	211	--	10.0	--	--	--
*29...	1255	437	210	7.9	11.0	3.0	8.7	62
JUL								
01...	1310	1050	122	--	17.5	--	--	--
AUG								
06...	1230	426	101	--	17.0	--	--	--
SEP								
*18...	1430	210	122	9.2	16.0	2.0	7.7	40
29...	1500	169	120	--	12.5	--	--	--

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY FIELD (MG/L AS CACO3)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
OCT								
30...	--	--	--	--	--	--	--	--
NOV								
27...	--	--	--	--	--	--	--	--
DEC								
27...	--	--	--	--	--	--	--	--
JAN								
29...	--	--	--	--	--	--	--	--
FEB								
27...	--	--	--	--	--	--	--	--
MAR								
26...	--	--	--	--	--	--	--	--
APR								
28...	--	--	--	--	--	--	--	--
29...	18	4.0	18	1.0	3.4	82	4.0	140
JUL								
01...	--	--	--	--	--	--	--	--
AUG								
06...	--	--	--	--	--	--	--	--
SEP								
18...	13	2.0	7.0	.5	1.9	46	1.0	80.0
29...	--	--	--	--	--	--	--	--

* Data from Calif. Dept. of Water Resources.

10293050 EAST WALKER RIVER BELOW SWEETWATER CREEK, NEAR BRIDGEPORT, CA

LOCATION.--Lat 38°26'27", long 119°06'18", in NW¼NW¼ sec.29, T.7 N., R.26 E., Lyon County, Hydrologic Unit 16050301, in Toiyabe National Forest, on left bank, 10 ft (3 m) downstream from bridge, 1.8 mi (2.9 km) downstream from Sweetwater Creek, and about 16 mi (26 km) north-northeast of Bridgeport.

DRAINAGE AREA.--467 mi^2 (1,210 km^2).

PERIOD OF RECORD.--March 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,760 ft (1,760 m), from topographic map.

REMARKS.--Records fair. Diversions for irrigation above station. Flow regulated by Bridgeport Reservoir.

AVERAGE DISCHARGE.--6 years (1975-80), 156 ft^3/s (4.418 m^3/s), 113,020 acre-ft/yr (139 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,420 ft^3/s (40.2 m^3/s) July 3, 1980, gage height, 7.90 ft (2.408 m); minimum daily, 5.2 ft^3/s (0.15 m^3/s) Mar. 8, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,420 ft^3/s (40.2 m^3/s) July 3, gage height, 7.90 ft (2.408 m); minimum daily, 18 ft^3/s (0.51 m^3/s) Dec. 27-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	100	26	29	20	28	46	133	444	399	1040	500	390
2	90	26	28	20	28	43	133	448	290	1290	470	395
3	90	26	28	20	28	40	133	463	256	1340	450	385
4	75	26	24	20	28	40	133	463	253	1190	420	370
5	78	26	22	20	28	40	137	482	241	1010	380	350
6	79	26	22	20	29	329	135	523	226	1000	418	340
7	79	27	23	21	28	453	137	555	223	920	425	330
8	79	28	23	23	28	472	139	560	220	720	408	320
9	79	28	23	24	29	472	155	550	241	604	408	290
10	78	28	23	26	29	467	159	544	263	525	439	270
11	77	29	19	28	29	472	178	528	260	532	446	250
12	75	30	19	51	28	463	209	523	247	581	460	240
13	74	29	19	184	28	291	232	518	229	540	474	225
14	74	29	19	134	28	135	247	492	232	515	499	225
15	74	29	20	47	30	129	253	472	247	520	496	225
16	73	29	21	40	30	133	263	467	286	530	467	215
17	71	29	22	36	39	185	283	467	439	500	464	212
18	71	29	23	35	104	220	341	463	560	480	460	212
19	70	28	24	32	144	226	386	448	544	480	442	210
20	60	28	24	31	566	226	416	444	544	480	446	210
21	47	28	24	34	555	183	421	453	588	460	456	210
22	50	28	23	34	640	133	434	448	690	440	470	210
23	50	32	22	34	635	129	421	444	700	455	435	200
24	48	32	21	34	625	127	390	448	725	470	391	185
25	47	32	20	32	620	137	390	448	730	510	391	180
26	40	32	19	32	340	131	390	453	720	535	387	170
27	40	30	18	30	59	129	386	430	714	535	384	170
28	40	29	18	29	51	129	394	412	672	620	384	170
29	40	30	18	28	48	131	448	407	696	635	368	196
30	37	28	18	29	---	133	458	407	795	570	355	216
31	26	---	19	28	---	133	---	412	---	540	384	---
TOTAL	2011	857	675	1176	4882	6377	8334	14616	13230	20567	13377	7571
MEAN	64.9	28.6	21.8	37.9	168	206	278	471	441	663	432	252
MAX	100	32	29	184	640	472	458	560	795	1340	500	395
MIN	26	26	18	20	28	40	133	407	220	440	355	170
AC-FT	3990	1700	1340	2330	9680	12650	16530	28990	26240	40790	26530	15020

CAL YR 1979 TOTAL 66934 MEAN 183 MAX 672 MIN 18 AC-FT 132800
WTR YR 1980 TOTAL 93673 MEAN 256 MAX 1340 MIN 18 AC-FT 185800

10293500 EAST WALKER RIVER ABOVE STROSNIDER DITCH, NEAR MASON, NV

LOCATION.--Lat 38°48'45", long 119°02'50", in NW¼SW¼ sec.14, T.11 N., R.26 E., Lyon County, Hydrologic Unit 16050303, on right bank 0.9 mi (1.4 km) upstream from head of Strosnider ditch, 12 mi (19 km) southeast of Mason, and 13.5 mi (21.7 km) southeast of Yerington.

DRAINAGE AREA.--1,100 mi^2 (2,849 km^2), approximately.

PERIOD OF RECORD.--January 1947 to current year (no winter records since 1978).

GAGE.--Water-stage recorder. Datum of gage is 4,574.10 ft (1,394.186 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 24, 1957, near present site at datum 0.56 ft (0.171 m) higher. Oct. 24, 1957, to Apr. 3, 1974, at site 400 ft (120 m) downstream at same datum.

REMARKS.--Records poor. Diversions for irrigation above station. Flow regulated by Bridgeport Reservoir. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--31 years (1948-78), 142 ft^3/s (4.021 m^3/s), 102,900 acre-ft/yr (127 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,380 ft^3/s (67.4 m^3/s) Feb. 1, 1963, gage height, 7.60 ft (2.316 m); minimum daily, 2.3 ft^3/s (0.065 m^3/s) Mar. 12, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,890 ft^3/s (53.5 m^3/s) July 4, gage height, 7.23 ft (2.204 m); minimum daily during period of operation, 116 ft^3/s (3.29 m^3/s) Apr. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							126	503	410	947	620	355
2							126	503	347	1260	556	371
3							116	515	330	1600	488	373
4							118	560	313	1770	462	361
5							118	582	285	1590	423	342
6							120	604	283	1310	355	328
7							118	648	285	1290	373	326
8							120	675	299	1130	357	325
9							125	696	299	795	342	306
10							132	708	283	611	361	317
11							135	716	275	506	376	277
12							158	687	257	563	380	252
13							179	601	285	604	385	226
14							198	614	295	637	422	214
15							212	539	300	576	434	220
16							229	509	330	620	413	205
17							239	497	400	620	406	185
18							283	503	510	557	403	187
19							344	500	536	536	372	183
20							423	482	539	539	375	183
21							485	497	551	539	392	183
22							509	506	617	509	433	190
23							521	509	755	503	430	190
24							494	533	775	503	380	177
25							462	527	855	530	360	173
26							429	527	863	554	348	167
27							399	480	863	570	347	162
28							404	480	855	579	352	156
29							437	503	807	791	346	152
30							491	494	836	783	332	171
31							---	494	---	660	313	---
TOTAL							8250	17192	14638	24582	12336	7257
MEAN							275	555	488	793	398	242
MAX							521	716	863	1770	620	373
MIN							116	480	257	503	313	152
AC-FT							16360	34100	29030	48760	24470	14390

BEST DOCUMENT AVAILABLE

10295500 LITTLE WALKER RIVER NEAR BRIDGEPORT, CA

LOCATION.--Lat 38°21'39", long 119°26'38" (revised), in NW¼NW¼ sec.22, T.6 N., R.23 E., Mono County, Hydrologic Unit 16050302, in Toiyabe National Forest, on right bank 0.8 mi (1.3 km) north of Sonora Junction, 1.5 mi (2.4 km) upstream from mouth, and 14 mi (23 km) northwest of Bridgeport.

DRAINAGE AREA.--63.1 mi^2 (163.4 km^2), revised.

PERIOD OF RECORD.--April to August 1910, October 1944 to current year. Prior to October 1958, published as East Fork West Walker River near Bridgeport.

GAGE.--Water-stage recorder. Altitude of gage is 6,790 ft (2,070 m), from topographic map. April to August 1910, nonrecording gage at site 1 mi (2 km) upstream at different datum.

REMARKS.--Records good except those for winter months, which are fair. Small diversions above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--36 years (1944-80) 50.9 ft^3/s (1.441 m^3/s), 36,880 acre-ft/yr (45.5 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,510 ft^3/s (42.8 m^3/s) Jan. 31, 1963, gage height, 3.22 ft (0.982 m), from rating curve extended above 350 ft^3/s (9.91 m^3/s) on basis of slope-area measurement at gage height 2.80 ft (0.853 m); maximum gage height recorded, 3.63 ft (1.106 m) Jan. 3, 1945 (backwater from ice); minimum discharge 1.4 ft^3/s (0.040 m^3/s) Nov. 20, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 200 ft^3/s (5.66 m^3/s) and maximum (*).

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 13	2200	346	9.80	2.08	0.634	June 10	2200	232	6.57	1.81	0.552
May 4	2000	246	6.97	1.85	0.564	July 1	2200	*512	14.5	2.41	0.735
May 22	2100	283	8.01	1.95	0.594						

Minimum daily discharge, 13 ft^3/s (0.37 m^3/s) Oct. 5-7, 10, 11, Jan. 9, 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	18	20	24	22	30	24	139	128	454	148	40
2	14	17	16	20	22	25	25	151	131	440	139	38
3	14	18	16	19	23	25	26	172	128	381	126	37
4	14	18	16	18	22	25	28	190	125	337	116	36
5	13	23	16	16	24	24	30	203	122	305	105	39
6	13	21	18	15	23	26	28	197	121	280	98	35
7	13	19	18	14	23	25	29	186	129	263	90	40
8	14	18	17	14	22	27	32	169	152	251	90	45
9	14	18	17	13	22	28	44	159	181	236	87	53
10	13	20	15	13	22	27	50	157	203	232	82	52
11	13	20	14	23	22	23	51	133	214	228	82	45
12	14	21	14	118	22	25	54	114	204	228	78	41
13	14	20	14	234	22	23	67	108	190	225	73	38
14	14	20	14	136	21	23	76	109	183	228	66	36
15	14	19	14	78	19	22	73	107	196	225	63	36
16	14	17	14	62	20	24	84	113	216	232	61	36
17	15	18	14	47	30	24	98	127	246	246	61	35
18	14	16	14	39	66	24	121	142	275	239	58	35
19	25	15	14	35	38	23	134	171	290	215	56	34
20	27	15	14	33	37	23	138	212	311	202	53	33
21	19	14	14	31	28	23	113	244	314	205	52	32
22	18	15	14	30	35	22	91	255	309	209	58	32
23	18	16	15	30	37	23	89	237	279	215	73	31
24	18	17	16	29	33	22	82	192	278	215	57	31
25	20	18	16	28	31	24	92	160	288	193	56	30
26	19	18	15	28	29	24	104	142	288	190	51	29
27	17	21	17	27	30	21	106	131	275	185	46	28
28	16	22	20	26	29	22	114	128	293	174	42	28
29	16	19	23	24	32	23	122	126	356	168	41	27
30	18	18	25	23	---	25	132	133	419	160	40	27
31	18	---	27	22	---	26	---	133	---	153	41	---
TOTAL	497	549	511	1269	806	751	2257	4940	6844	7514	2289	1079
MEAN	16.0	18.3	16.5	40.9	27.8	24.2	75.2	159	228	242	73.8	36.0
MAX	27	23	27	234	66	30	138	255	419	454	148	53
MIN	13	14	14	13	19	21	24	107	121	153	40	27
AC-FT	986	1090	1010	2520	1600	1490	4480	9800	13580	14900	4540	2140

CAL YR 1979 TOTAL 19126 MEAN 52.4 MAX 351 MIN 12 AC-FT 37940
WTR YR 1980 TOTAL 29306 MEAN 80.1 MAX 454 MIN 13 AC-FT 58130

10296000 WEST WALKER RIVER BELOW LITTLE WALKER RIVER, NEAR COLEVILLE, CA

LOCATION.--Lat 38°22'47", long 119°26'57", in NE¼SE¼ sec.9, T.6 N., R.23 E., Mono County, Hydrologic Unit 16050302, in Toiyabe National Forest, on right bank 150 ft (50 m) downstream from Little Walker River 60 ft (20 m) upstream from bridge on U.S. Highway 395, and 13 mi (21 km) southeast of Coleville.

DRAINAGE AREA.--181 mi^2 (469 km^2), revised.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1938 to current year. Prior to October 1958, published as "below East Fork."

REVISED RECORDS.--WSP 1927: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,591.39 ft (2,009.056 m) National Geodetic Vertical Datum of 1929, supplementary adjustment of 1958. Oct. 1, 1939, to Sept. 30, 1969, at site 100 ft (30 m) upstream at same datum. Prior to Oct. 1, 1939, at site 25 ft (8 m) downstream at datum 1.00 ft (0.306 m) higher.

REMARKS.--Records good. Station is above diversions except for a few small ranch ditches. Flow slightly regulated by Poor Lake Reservoir (capacity, unknown) 7 mi (11 km) upstream.

AVERAGE DISCHARGE.--42 years, 257 ft^3/s (7.278 m^3/s), 186,200 acre-ft/yr (230 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,220 ft^3/s (176 m^3/s) Nov. 20, 1950, gage height, 8.10 ft (2.469 m), from rating curve extended above 1,900 ft^3/s (53.8 m^3/s) on basis of slope-area measurement of peak flow; minimum, 4.0 ft^3/s (0.11 m^3/s) Nov. 18, 1948, result of freezeup.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge observed prior to 1938, 5,800 ft^3/s (164 m^3/s) Dec. 11, 1937, by slope-area measurement.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,120 ft^3/s (31.7 m^3/s) and maximum (*).

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 13	2100	1,180	33.4	4.10	1.250
May 5	0100	1,360	38.5	4.26	1.298
May 21	0100	1,700	48.1	4.61	1.405
June 11	0200	1,400	39.6	4.20	1.280
July 1	2400	*2,780	78.7	5.55	1.692

Minimum daily discharge 37 ft^3/s (1.05 m^3/s) Oct. 5-7, 10-13, 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	49	51	79	101	114	120	786	730	2380	668	132
2	39	49	52	66	100	114	121	865	754	2200	634	130
3	38	52	51	64	100	112	122	1000	721	1740	563	128
4	38	50	49	64	99	108	129	1080	660	1500	488	125
5	37	55	49	60	104	112	135	1200	600	1300	444	126
6	37	54	49	59	105	112	128	1140	595	1210	414	121
7	37	55	50	58	100	107	127	1110	677	1140	381	137
8	38	56	51	54	100	102	139	972	882	1120	387	156
9	39	50	51	56	94	102	170	919	1110	1070	374	150
10	37	49	52	42	96	101	194	768	1220	1060	350	156
11	37	50	44	70	94	104	209	642	1280	1060	352	139
12	37	48	44	321	94	100	224	546	1190	1060	336	137
13	37	49	44	728	92	105	272	498	1070	1060	315	125
14	38	49	45	631	97	106	331	472	992	1040	275	118
15	37	49	45	386	94	105	349	477	1100	1070	255	113
16	38	51	45	303	97	103	388	557	1260	1080	245	109
17	39	53	45	250	119	105	464	688	1440	1160	238	103
18	38	47	45	207	222	107	556	842	1590	1110	234	103
19	61	41	45	175	172	106	637	1040	1600	969	229	106
20	104	40	45	160	164	106	688	1330	1710	899	210	103
21	71	39	45	150	143	105	580	1490	1680	945	204	98
22	65	42	47	139	142	104	469	1510	1580	965	205	97
23	61	46	49	131	140	104	423	1340	1420	1010	229	92
24	61	52	51	128	134	104	386	945	1360	1020	198	90
25	64	57	50	122	127	99	427	753	1550	894	185	87
26	66	59	47	118	124	99	508	646	1540	859	175	82
27	61	53	47	108	123	101	565	598	1380	942	164	79
28	58	55	52	118	123	102	618	589	1440	885	154	78
29	54	54	60	110	115	107	639	590	1840	797	146	77
30	50	52	77	100	---	117	717	683	2190	745	139	75
31	51	---	88	105	---	118	---	738	---	703	137	---
TOTAL	1508	1505	1565	5162	3415	3291	10835	26814	37161	34993	9328	3372
MEAN	48.6	50.2	50.5	167	118	106	361	865	1239	1129	301	112
MAX	104	59	88	728	222	118	717	1510	2190	2380	668	156
MIN	37	39	44	42	92	99	120	472	595	703	137	75
AC-FT	2990	2990	3100	10240	6770	6530	21490	53190	73710	69410	18500	6690

CAL YR 1979 TOTAL 88208 MEAN 242 MAX 1670 MIN 37 AC-FT 175000
WTR YR 1980 TOTAL 138949 MEAN 380 MAX 2380 MIN 37 AC-FT 275600

10296000 WEST WALKER RIVER BELOW LITTLE WALKER RIVER NEAR COLEVILLE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1958 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980*

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)
APR 29...	1340	686	131	7.9	11.0	6.0	8.4	45
SEP 18...	1340	117	88	7.8	14.5	.00	8.2	30

DATE	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY FIELD (MG/L AS CACO3)	CHLORIDE, DISSOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)
APR 29...	13	3.0	10	.7	1.9	56	2.0	106
SEP 18...	9.0	2.0	5.0	.4	.9	35	1.0	55.0

* Data from Calif. Dept. of Water Resources.

10296500 WEST WALKER RIVER NEAR COLEVILLE, CA

LOCATION.--Lat 38°30'55", long 119°27'15", in NW¼NE¼ sec.28, T.8 N., R.23 E., Mono County, Hydrologic Unit 16050302, in Toiyabe National Forest, on left bank 0.2 mi (0.3 km) downstream from Rock Creek and 5 mi (8 km) southeast of Coleville.

DRAINAGE AREA.--250 mi^2 (648 km^2), revised.

PERIOD OF RECORD.--October 1902 to July 1908 (published as West Fork of Walker River near Coleville 1903, 1905-8 and as Walker River (West Fork) near Coleville 1904), March 1909 to September 1910, June 1915 to March 1938, May 1957 to current year. Monthly discharge only for some periods published in WSP 1314.

REVISED RECORDS.--WSP 880: 1917 (runoff in acre-ft). WSP 1514: 1918, 1923. WSP 1927: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,520 ft (1,682 m), from topographic map. Prior to July 31, 1908, nonrecording gage at site 0.5 mi (0.8 km) upstream at different datum. Mar. 1, 1909, to Aug. 31, 1910, nonrecording gage, and June 18, 1915, to Aug. 15, 1919, water-stage recorder near present site at different datums. Aug. 16, 1919, to Mar. 31, 1938, water-stage recorder at site 1,000 ft (300 m) upstream at different datum. May 26, 1957, to Sept. 10, 1963, water-stage recorder at site 10 ft (3 m) downstream at datum 0.38 ft (0.116 m) lower.

REMARKS.--Records good. Station is above diversions except for a few small ranch ditches. Flow slightly regulated by Poor Lake Reservoir (capacity, unknown) 17 mi (27 km) upstream. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--51 years (1902-7, 1909-10, 1915-37, 1957-80), 273 ft^3/s (7.731 m^3/s), 197,800 acre-ft/yr (244 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,500 ft^3/s (184 m^3/s) Dec. 11, 1937, from slope-area measurement of peak flow; minimum, 5 ft^3/s (0.14 m^3/s) Dec. 3, 1924, Aug. 27, 1931.

EXTREMES FOR CURRENT YEAR.--Peak discharges, above base of 1,120 ft^3/s (31.7 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 14	0100	1,470	41.6	3.31	1.009	May 22	0400	1,860	52.7	3.70	1.128
May 5	0200	1,570	44.5	3.39	1.033	July 1	0300	*2,650	75.0	4.28	1.304

Minimum daily discharge, 44 ft^3/s (1.25 m^3/s) Oct. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	60	59	91	119	134	126	892	762	2310	624	150
2	52	60	61	79	121	128	126	963	800	2180	596	146
3	51	62	60	76	120	127	126	1160	757	1790	530	142
4	50	61	60	76	121	124	131	1260	673	1590	468	137
5	50	64	60	74	120	126	144	1420	595	1370	430	137
6	49	65	59	74	125	128	137	1360	579	1260	404	137
7	47	66	60	71	122	125	135	1360	669	1180	374	143
8	47	67	61	69	117	118	140	1150	917	1150	376	180
9	50	60	62	70	102	116	173	1100	1200	1100	369	170
10	48	58	63	57	107	117	202	906	1320	1060	342	184
11	47	60	54	76	108	119	218	721	1350	1070	345	161
12	46	58	52	279	110	112	228	605	1270	1070	330	162
13	46	60	52	672	106	119	270	534	1120	1070	315	149
14	47	59	53	909	114	121	343	503	1020	1030	280	137
15	46	59	53	448	115	121	368	499	1130	1060	261	131
16	46	62	54	343	121	117	412	577	1320	1070	253	126
17	46	65	53	273	129	119	495	728	1470	1150	244	120
18	44	59	52	235	231	120	615	929	1650	1130	239	117
19	54	47	51	201	201	119	724	1140	1630	973	234	116
20	121	45	51	178	181	119	819	1490	1740	877	220	115
21	88	45	50	165	165	115	676	1690	1690	933	216	110
22	78	48	51	155	155	116	530	1710	1590	953	212	105
23	72	52	50	147	154	114	462	1590	1430	999	234	102
24	71	58	65	144	150	116	426	1090	1350	1020	216	100
25	73	66	48	139	143	107	463	847	1460	889	199	96
26	78	68	59	134	139	106	558	693	1530	820	194	93
27	73	59	61	129	140	114	634	615	1350	938	182	91
28	69	63	69	134	146	114	691	601	1360	898	172	87
29	64	63	78	129	137	117	714	592	1820	772	164	86
30	59	61	84	114	---	120	802	701	2220	720	158	85
31	62	---	101	123	---	123	---	778	---	667	154	---
TOTAL	1829	1780	1846	5864	3919	3691	11888	30204	37772	35099	9335	3815
MEAN	59.0	59.3	59.5	189	135	119	396	974	1259	1132	301	127
MAX	121	68	101	909	231	134	819	1710	2220	2310	624	184
MIN	44	45	48	57	102	106	126	499	579	667	154	85
AC-FT	3630	3530	3660	11630	7770	7320	23580	59910	74920	69620	18520	7570

CAL YR 1979 TOTAL 100820 MEAN 276 MAX 1940 MIN 44 AC-FT 200000
WTR YR 1980 TOTAL 147042 MEAN 402 MAX 2310 MIN 44 AC-FT 291700

10297000 TOPAZ LAKE NEAR TOPAZ, CA

LOCATION.--Lat 38°41'35", long 119°31'10", in NW¼NE¼ sec.33, T.10 N., R.22 E., Douglas County, Hydrologic Unit 16050301, at outlet works of Topaz Lake on West Walker River, 5.5 mi (8.8 km) north of Topaz.

PERIOD OF RECORD.--December 1921 to September 1931 (monthly contents only published in WSP 1734), October 1931 to current year.

GAGE.--Float and nonrecording gages read once daily. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1978 at datum 4.62 ft (1.408 m) higher.

REMARKS.--Topaz Lake, formerly known as Alkali Lake and Topaz Reservoir, was formed by the diversion of water from West Walker River through a feeder canal and the construction of an outlet tunnel through a low saddle in rim of lake. Storage began about December 1921. Usable capacity, 59,440 acre-ft (73.3 hm^3) between elevations 4,967.68 ft (1,514.13 m) lowest practical elevation for diversion through tunnel (bottom of outlet tunnel at elevation, 4,965.4 ft or 1,513 m) and 5,000.38 ft (1,524 m), 3 ft (0.9 m) below top of levee. Usable capacity of reservoir was increased from about 45,000 acre-ft (55.5 hm^3) to 59,440 acre-ft (73.3 hm^3) in October 1937 by an earthfill, rock-faced levee at south end. Figures given herein represent usable contents. There is 65,000 acre-ft (80.1 hm^3) of lake volume below the point of controllable storage. Water is used for irrigation in Walker River Irrigation District.

COOPERATION.--Elevations furnished by Walker River Irrigation District.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 60,680 acre-ft (74.8 hm^3) July 3, 1980, elevation, 5,000.92 ft (1,524.280 m) present datum; no contents Oct. 31, 1924, Sept. 22, 24-30, Oct. 1-15, 1960, Aug. 19 to Dec. 23, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 60,680 acre-ft (74.8 hm^3) July 3, elevation, 5,000.92 ft (1,524.280 m). Minimum contents observed 7,380 acre-ft (9.10 hm^3) Oct. 20.

Capacity table (elevation, in feet, and contents, in acre-feet)

4,972	6,720	4,985	28,310
4,973	8,310	4,990	37,360
4,975	11,520	4,995	47,540
4,977	14,770	5,000	58,570
4,979	18,080	5,001	60,870
4,981	21,440		

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9780	8470	12940	17950	33670	45490	51680	46120	44570	58960	58770	37360
2	9740	8620	13090	18160	33960	45780	51700	46010	44880	60010	58870	36630
3	9570	8690	13240	18370	34200	46160	51700	46040	45220	60680	58940	35840
4	9410	9010	13400	18550	34490	46560	51720	46440	45530	60640	58870	34970
5	9250	9100	13510	18720	34750	46980	51790	47010	45760	60380	58620	34380
6	9140	9220	13680	18880	35020	47180	51810	47490	45910	60010	58390	33650
7	8990	9380	13820	19030	35320	47580	51810	47810	46040	59520	57820	32930
8	8830	9460	13970	19220	35600	47860	51810	48000	46350	59320	57200	32210
9	8680	9540	14120	19350	35860	48110	51790	47980	47050	59300	56620	31830
10	8520	9860	14270	19600	36080	48410	51770	47750	47940	59460	55920	31570
11	8370	9950	14410	19800	36350	48730	51740	47050	48900	59480	55220	31150
12	8280	10110	14530	20210	36560	48920	51660	46250	49920	59350	54440	30870
13	8160	10260	14630	21420	36770	49200	51550	45180	50890	59350	53550	30690
14	8020	10400	14740	23940	37010	49610	51550	44260	51740	58980	52540	30270
15	7890	10560	14890	25670	37340	49740	51460	43890	52540	58960	51390	29920
16	7770	10710	15040	26800	37570	49920	51460	43520	53220	59000	50260	29650
17	7650	10900	15220	27650	37960	50200	51240	43290	54040	59000	49180	29320
18	7580	11040	15330	28450	38560	50410	51130	43350	54800	59070	48090	28990
19	7480	11180	15450	28970	39550	50670	51090	43700	55670	59120	47030	28590
20	7380	11290	15600	29550	40710	50910	51040	44660	56480	58750	46250	28200
21	7500	11420	15700	29990	41450	51180	50810	45490	57230	58550	45550	27800
22	7620	11530	15780	30390	42140	51460	50370	46330	57520	58620	44680	27380
23	7640	11680	15940	30770	42690	51680	49640	47090	57590	58840	43760	26990
24	7770	11950	16340	31140	43120	51940	48900	47470	57480	59030	43680	26640
25	7850	12060	16500	31510	43540	52010	47940	47180	57660	59050	42490	26290
26	7930	12180	16650	31960	43990	51960	47500	46750	57840	58960	41800	25980
27	8020	12340	16790	32220	44320	51900	47050	46140	57890	59050	41090	25690
28	8110	12490	16900	32480	44760	51830	46710	45300	57730	59210	40360	25400
29	8200	12650	17030	32820	44900	51770	46540	44720	57750	59160	39610	25070
30	8290	12780	17220	33110	---	51770	46310	44360	58160	58910	38900	24780
31	8340	---	17530	33360	---	51680	---	44340	---	58750	38110	---
MAX	9780	12780	17530	33360	44900	52010	51810	48000	58160	60680	58940	37360
MIN	7380	8470	12940	17950	33670	45490	46310	43290	44570	58550	38110	24780
†	4973.02	4975.78	4978.67	4989.85	4993.75	4996.92	4999.42	4993.48	4999.82	5000.08	4990.39	4982.96
‡	-1550	+4440	+4750	+15830	+11540	+6780	-5370	-1970	+13820	+590	-20640	-13330

CAL YR 1979 MAX 58770 MIN 7380 ‡ -15870
WTR YR 1980 MAX 60680 MIN 7380 ‡ +14890

† Elevation, in feet NGVD, at end of month.
‡ Change in contents, in acre-feet.

10297500 WEST WALKER RIVER AT HOYE BRIDGE, NEAR WELLINGTON, NV

LOCATION.--Lat 38°43'40", long 119°25'40", in NE¼SE¼ sec.17, T.10 N., R.23 E., Douglas County, Hydrologic Unit 16050302, on left bank 20 ft (6 m) upstream from Hoye Bridge, 2 mi (3 km) upstream from head of Saroni Canal, and 4 mi (6 km) southwest of Wellington.

DRAINAGE AREA.--497 mi^2 (1,290 km^2), revised.

PERIOD OF RECORD.--May to August 1910 (published as West Walker River near Wellington), July 1920 to September 1923, March 1924 to August 1925, October 1925 to September 1932, October 1957 to current year. Monthly discharge only for some periods published in WSP 1314.

REVISED RECORDS.--WSP 2127: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,980 ft (1,518 m), from topographic map. May to August 1910, nonrecording gage at same site at different datum. July 1, 1920, to Sept. 30, 1923, water-stage recorder at site 3 mi (5 km) downstream, 1 mi (2 km) downstream from Saroni Canal, at different datum, and supplemental nonrecording gage at Saroni Canal 1 mi (2 km) downstream from head. Mar. 1, 1924, to Sept. 30, 1932, water-stage recorder at same site at different datum.

REMARKS.--Records good. Flow regulated by off-channel storage in Topaz Lake since Jan. 30, 1922. Diversions for irrigation of about 10,500 acres (42.5 km^2) above station. Records include releases from Topaz Lake and all return flow from Antelope Valley. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--33 years (1920-23, 1925-32, 1957-80), 235 ft^3/s (6.655 m^3/s), 170,300 acre-ft/yr (210 hm^3/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,180 ft^3/s (61.7 m^3/s) June 6, 1922; minimum observed, 4.8 ft^3/s (0.14 m^3/s) Jan. 5, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,860 ft^3/s (52.7 m^3/s) July 3, gage height, 8.00 ft (2.438 m); minimum 11 ft^3/s (0.31 m^3/s) Nov. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	103	28	26	39	23	34	170	943	649	1730	557	426
2	91	26	26	34	23	32	169	969	595	1800	501	423
3	79	26	27	33	23	31	169	954	580	1850	485	417
4	77	26	27	32	23	30	169	940	548	1780	471	401
5	78	26	27	31	22	30	170	1080	519	1620	441	388
6	86	25	23	30	22	31	168	1160	502	1500	475	384
7	84	22	23	30	23	30	170	1230	507	1360	535	378
8	80	22	23	30	23	30	172	1240	506	1120	501	350
9	89	22	24	31	22	29	196	1230	560	962	523	300
10	116	22	24	30	23	29	208	1230	660	929	557	289
11	115	22	25	54	22	28	269	1200	764	1020	563	283
12	113	22	25	487	22	28	288	1160	702	1110	607	262
13	115	22	25	1250	23	28	288	1080	632	1040	645	247
14	123	20	24	261	23	27	333	918	619	954	663	249
15	119	21	25	87	26	27	402	756	642	925	659	244
16	105	23	25	65	26	28	445	735	717	943	648	236
17	84	23	25	55	28	28	523	721	918	958	624	249
18	81	23	25	48	35	28	598	715	1110	977	614	254
19	73	24	25	42	60	28	696	742	1160	979	541	253
20	74	24	25	39	130	27	812	865	1230	921	484	258
21	71	24	25	36	100	28	914	1180	1440	816	487	266
22	55	24	25	33	110	29	925	1300	1550	729	494	264
23	49	24	25	31	90	28	911	1330	1490	753	470	254
24	49	24	30	30	70	37	857	1250	1350	821	457	239
25	47	24	31	28	60	133	826	1140	1180	816	459	238
26	42	25	29	27	50	165	792	1060	1350	692	451	222
27	42	25	29	26	43	168	785	1030	1460	653	440	222
28	35	25	28	26	40	169	809	963	1400	770	439	220
29	35	26	27	25	38	168	850	827	1440	790	406	219
30	45	26	29	25	---	169	896	732	1570	744	416	219
31	46	---	33	24	---	169	---	707	---	639	421	---
TOTAL	2401	716	810	3019	1223	1846	14980	31387	28350	32701	16034	8654
MEAN	77.5	23.9	26.1	97.4	42.2	59.5	499	1012	945	1055	517	288
MAX	123	28	33	1250	130	169	925	1330	1570	1850	663	426
MIN	35	20	23	24	22	27	168	707	502	639	406	219
AC-FT	4760	1420	1610	5990	2430	3660	29710	62260	56230	64860	31800	17170

CAL YR 1979 TOTAL 98450 MEAN 270 MAX 1470 MIN 20 AC-FT 195300
WTR YR 1980 TOTAL 142121 MEAN 388 MAX 1850 MIN 20 AC-FT 281900

10300000 WEST WALKER RIVER NEAR HUDSON, NV

LOCATION.--Lat 38°48'35", long 119°13'35", in SE¼SW¼ sec.18, T.11 N., R.25 E., Lyon County, Hydrologic Unit 16050302, on left bank 0.5 mi (0.8 km) upstream from Wilson Canyon and 3 mi (5 km) southeast of Hudson.

DRAINAGE AREA.--964 mi^2 (2,497 km^2).

PERIOD OF RECORD.--August 1914 to March 1925, January 1947 to current year (no winter records since 1978). August 1914 to May 1921 published as "at Hudson."

GAGE.--Water-stage recorder. Altitude of gage is 4,650 ft (1,417 m), from topographic map. Prior to May 1921, nonrecording gage at site 2.5 mi (4.0 km) upstream at different datum. May 1921 to March 1925, water-stage recorder at approximately same site at different datum.

REMARKS.--Records good. Flow regulated by off-channel storage in Topaz Lake since Jan. 30, 1922. Many diversions above station for irrigation. Station is below return flow from irrigated areas in Smith Valley. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--41 years (1914-24, 1947-78), 187 ft^3/s (5.296 m^3/s), 135,5500 acre-ft/yr (167 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,700 ft^3/s (76.5 m^3/s) Dec. 24, 1955, gage height, 7.42 ft (2.262 m), from floodmarks; minimum, 3.8 ft^3/s (0.11 m^3/s) Jan. 22, 1962, but may have been less during periods of ice effect.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,520 ft^3/s (43.0 m^3/s) July 4, gage height, 4.97 ft (1.515 m); minimum daily during period of operation, 134 ft^3/s (3.79 m^3/s) April 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							171	599	464	1280	441	268
2							150	609	406	1370	389	267
3							145	593	391	1450	359	262
4							134	549	373	1480	339	250
5							140	634	358	1330	285	243
6							137	742	336	1180	286	234
7							137	778	315	1080	380	236
8							140	834	311	842	308	233
9							155	821	322	701	311	219
10							157	842	403	622	329	219
11							191	825	522	630	329	218
12							226	801	530	738	347	210
13							226	731	418	722	368	199
14							225	628	403	654	372	191
15							282	479	425	609	386	197
16							303	444	479	634	394	186
17							338	452	593	650	384	186
18							386	462	782	685	393	174
19							450	463	870	709	353	184
20							532	511	874	689	283	204
21							650	738	1050	609	253	212
22							690	916	1180	498	276	208
23							698	948	1160	507	281	198
24							662	913	1080	568	276	186
25							615	846	850	609	276	186
26							565	774	949	546	284	183
27							554	746	1060	479	287	180
28							564	693	1020	562	294	173
29							572	594	1010	626	264	165
30							581	498	1130	618	255	154
31							---	471	---	530	251	---
TOTAL							10776	20934	20064	24207	10033	6225
MEAN							359	675	669	781	324	208
MAX							698	948	1180	1480	441	268
MIN							134	444	311	479	251	154
AC-FT							21370	41520	39800	48010	19900	12350

10300600 WALKER RIVER NEAR MASON, NV

LOCATION.--Lat 38°55'11", long 119°11'20", in SW¼NE¼ sec.9, T.12 N., R.25 E., Lyon County, Hydrologic Unit 16050303, on right bank 50 ft (15 m) downstream from bridge, 2 mi (3 km) south of Mason, and 5 mi (8 km) south-southwest of Yerington.

DRAINAGE AREA.--2,400 mi^2 (6,200 km^2), approximately.

PERIOD OF RECORD.--May 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,420 ft (1,347 m), from topographic map.

REMARKS.--Records good except those for period of no gage height record, Jan. 2 to Feb. 5, which are fair. Many diversions for irrigation above station. Flow regulated by Bridgeport Reservoir and Topaz Reservoir, combined capacity, 101,900 acre-ft (126 hm^3). Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--6 years, 224 ft^3/s (6.344 m^3/s), 162,300 acre-ft/yr (200 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,240 ft^3/s (63.4 m^3/s) July 4, 1980, gage height, 9.16 ft (2.792 m); minimum daily 19 ft^3/s (0.54 m^3/s) Oct. 13-17, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,240 ft^3/s (63.4 m^3/s) July 4, gage height, 9.16 ft (2.792 m); minimum daily, 48 ft^3/s (1.36 m^3/s) Nov. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	90	99	69	73	69	177	273	886	829	1710	862	373
2	94	94	72	78	67	168	225	900	761	1890	721	377
3	87	86	72	82	66	159	202	881	687	2040	612	407
4	84	84	70	76	65	150	193	853	612	2180	565	410
5	75	81	73	67	69	140	190	934	581	2140	486	400
6	67	76	75	67	73	130	200	1020	534	1970	377	410
7	69	75	70	66	72	290	190	1120	501	1880	476	400
8	69	72	70	66	76	483	183	1220	490	1680	447	393
9	73	69	72	66	78	505	181	1180	461	1220	397	410
10	81	67	75	66	76	516	183	1260	538	979	413	461
11	87	66	73	70	75	519	202	1290	641	829	440	440
12	89	61	66	80	75	527	268	1280	695	920	434	420
13	90	63	66	100	76	531	305	1110	527	1000	444	390
14	102	61	58	150	75	383	305	1010	505	959	437	380
15	106	55	63	700	73	240	320	806	519	834	486	360
16	106	55	67	500	75	217	341	708	581	829	527	340
17	99	55	67	280	76	220	367	726	704	886	523	330
18	92	54	73	200	82	251	400	748	949	900	531	320
19	94	50	75	140	134	287	523	752	1140	925	486	310
20	89	48	75	110	233	296	687	761	1100	925	410	310
21	95	49	75	100	527	287	867	947	1220	843	354	305
22	99	57	66	94	600	248	969	1150	1400	721	400	300
23	97	62	59	90	654	210	979	1160	1500	713	454	295
24	79	66	66	85	674	205	959	1140	1460	815	461	290
25	70	70	76	82	678	220	857	1070	1260	896	423	290
26	67	72	78	77	691	287	811	1020	1330	872	440	285
27	66	62	72	76	534	314	770	1010	1480	802	423	270
28	72	64	73	74	251	296	770	969	1460	905	410	262
29	76	65	69	72	193	287	779	881	1420	1090	390	268
30	87	65	65	71	---	287	825	811	1530	1210	373	259
31	97	---	66	70	---	290	---	802	---	1090	348	---
TOTAL	2648	2003	2166	3928	6487	9120	14324	30405	27415	36653	14550	10465
MEAN	85.4	66.8	69.9	127	224	294	477	981	914	1182	469	349
MAX	106	99	78	700	691	531	979	1290	1530	2180	862	461
MIN	66	48	58	66	65	130	181	708	461	713	348	259
AC-FT	5250	3970	4300	7790	12870	18090	28410	60310	54380	72700	28860	20760

CAL YR 1979 TOTAL 86002 MEAN 236 MAX 1370 MIN 48 AC-FT 170600
WTR YR 1980 TOTAL 160164 MEAN 438 MAX 2180 MIN 48 AC-FT 317700

10301500 WALKER RIVER NEAR WABUSKA, NV
(National stream-quality accounting network and pesticide network station)

LOCATION.--Lat 39°09'10", long 119°05'50", in SE¼NW¼ sec. 20, T.15 N., R.26 E., Lyon County, Hydrologic Unit 16050303, on left bank 600 ft (180 m) upstream from timber bridge at Julian Ranch, 1.8 mi (2.9 km) downstream from Southern Pacific Railroad bridge, 4.6 mi (7.4 km) east of Wabuska, and 16 mi (26 km) upstream from Weber Dam.

DRAINAGE AREA.--2,600 mi^2 (6,700 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1902 to December 1904, January 1905 to July 1908 (fragmentary), January 1920 to September 1935, January 1939 to current year. Monthly discharge only for some periods published in WSP 1734.

REVISED RECORDS.--WSP 1314: 1923 (M). WSP 1634: 1904.

GAGE.--Water-stage recorder. Altitude of gage is 4,280 ft (1,305 m), from topographic map. July 22, 1902, to July 31, 1908, nonrecording gage at site 2.5 mi (4.0 km) upstream at different datum. Jan. 15, 1920, to Sept. 30, 1929, nonrecording gage or water-stage recorder at several sites near present site at various datums; Oct. 1, 1929, to Sept. 30, 1935, water-stage recorder at site 1.5 mi (2.4 km) downstream at different datum. January 1939 to September 1958, nonrecording gage on bridge 300 ft (90 m) downstream at datum 1.19 ft (0.363 m) higher.

REMARKS.--Records fair except for period of no gage height record, Nov. 9 to Dec. 31, which are poor. Many diversions for irrigation above station. Flow regulated by Bridgeport Reservoir and Topaz Reservoir, combined capacity, 101,900 acre-ft (126 hm^3).

AVERAGE DISCHARGE.--55 years (1902-4, 1920-24, 1925-35, 1939-41, 1942-43, 1944-80), 156 ft^3/s (4.418 m^3/s), 113,000 acre-ft/yr (139 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 3,280 ft^3/s (92.9 m^3/s) July 10, 11, 1906, gage height, 5.90 ft (1.798 m), site and datum then in use; no flow at times in 1924, 1925, 1931.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,220 ft^3/s (62.9 m^3/s) July 5, gage height, 9.72 ft (2.963 m); minimum, 20 ft^3/s (0.57 m^3/s) Oct. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	56	69	71	99	164	271	539	698	1350	653	201
2	38	62	68	81	96	150	232	586	688	1520	551	245
3	41	68	69	82	97	143	195	593	599	1730	426	236
4	38	74	68	74	96	136	169	561	505	2000	378	239
5	37	77	70	68	95	124	150	599	458	2190	322	191
6	30	79	72	67	94	106	167	702	443	2140	226	199
7	27	77	70	68	90	148	169	801	383	1870	220	228
8	26	74	70	67	88	424	127	878	368	1710	256	224
9	28	70	71	67	88	469	85	1040	362	1310	180	238
10	26	67	72	69	86	481	86	980	355	906	162	327
11	24	64	66	69	86	487	85	1060	438	636	195	350
12	28	60	64	83	86	472	113	1070	567	643	171	337
13	29	62	63	91	84	464	146	910	441	760	178	310
14	34	59	56	175	88	418	146	790	335	763	158	303
15	45	54	61	588	88	217	116	712	322	629	162	258
16	44	54	63	456	89	174	117	545	347	536	226	241
17	44	54	65	253	91	162	113	502	424	567	251	234
18	50	53	68	205	100	180	119	526	606	623	271	211
19	43	49	72	169	116	228	143	539	866	670	327	184
20	25	47	73	145	228	251	285	490	902	752	264	174
21	23	50	72	129	469	256	464	539	910	695	209	188
22	27	56	66	124	623	247	609	749	1090	567	178	205
23	27	61	61	119	667	191	616	851	1260	469	241	224
24	31	67	62	116	681	169	613	890	1260	586	322	243
25	27	70	72	108	674	171	545	898	1140	653	280	224
26	21	70	74	105	670	226	502	855	967	657	269	220
27	28	62	70	111	619	276	455	835	1070	593	276	199
28	34	63	69	105	332	265	461	797	1200	619	211	195
29	41	66	64	103	195	256	458	749	1190	805	234	188
30	46	70	61	98	---	260	481	633	1210	930	209	171
31	49	---	64	98	---	260	---	626	---	934	213	---
TOTAL	1064	1895	2085	4164	6915	7975	8238	22845	21404	30813	8219	6987
MEAN	34.3	63.2	67.3	134	238	257	275	737	713	994	265	233
MAX	53	79	74	588	681	487	616	1070	1260	2190	653	350
MIN	21	47	56	67	84	106	85	490	322	469	158	171
AC-FT	2110	3760	4140	8260	13720	15820	16340	45310	42450	61120	16300	13860

CAL YR 1979 TOTAL 50069 MEAN 137 MAX 1000 MIN 20 AC-FT 99310
WTR YR 1980 TOTAL 122604 MEAN 335 MAX 2190 MIN 21 AC-FT 243200

10301500 WALKER RIVER NEAR WABUSKA, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1960 to current year.
CHEMICAL ANALYSES: October 1968 to September 1969, daily (composited) and monthly; October 1969 to current year, monthly.
SPECIFIC CONDUCTANCES: October 1968 to September 1976, once-daily; October 1976 to current year, monthly.
BIOLOGICAL DATA: October 1974 to September 1977, monthly; October 1977 to current year, monthly (seasonal).
MICROBIOLOGICAL DATA: October 1974 to current year, monthly.
WATER TEMPERATURES: February 1960 to September 1963, occasional; October 1963 to September 1968, monthly; October 1968 to September 1976, once-daily; October 1976 to current year, monthly.
SEDIMENT DATA: October 1973 to current year, monthly.

REMARKS.--Inflow from two drainage ditches enters stream less than a mile (1.6 km) above sampling site. Because inflow and streamflow differ in quality, and because the waters do not mix thoroughly above sampling site, flow at site is not homogenous either chemically or thermally. This doubtless was responsible for some of the variation shown by daily specific-conductance and temperature data during water years 1969-76. Detailed sampling information is available from U.S. Geol. Survey office, Carson City, NV.

COOPERATION.--Pesticide analyses by U.S. Environmental Protection Agency.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 792 micromhos Dec. 12, 1972; minimum, 183 micromhos June 26, 1969.
PHYTOPLANKTON: Maximum, 120,000 cells/mL Mar. 27, 1975; minimum, 220 cells/mL Sept. 24, 1979.
FECAL STREPTOCOCCI: Maximum, 1,700 colonies/100 mL (non-ideal colony count) Jan. 17, 1979; minimum, 16 colonies/100 mL Mar. 9, 1976.
WATER TEMPERATURES: Maximum, 36.5°C July 28, 1961; minimum, freezing point on several days during winter months of most years.
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 1,720 mg/L Mar. 27, 1975; minimum, 10 mg/L Nov. 17, 1977.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL (MG/L)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS (MG/L AS CACO3)
OCT											
26...	1415	20	592	8.4	14.5	2.2	9.2	12	K16	110	160
NOV											
30...	1345	70	640	8.6	3.0	7.8	12.0	11	K10	83	170
DEC											
31...	1355	62	630	8.5	4.0	6.6	10.0	24	K6	180	170
JAN											
23...	1430	122	610	8.3	4.0	16	11.5	46	K5	--	150
FEB											
27...	1310	670	287	8.1	8.0	110	9.6	37	K35	1300	78
MAR											
31...	1315	272	364	8.4	9.0	24	9.9	18	K4	52	98
APR											
30...	1400	483	325	8.2	16.0	42	9.9	--	K26	300	95
MAY											
29...	1450	734	--	7.3	18.0	37	8.0	46	180	340	77
JUN											
26...	1105	976	222	7.9	18.5	47	7.4	11	120	650	70
JUL											
24...	1220	577	233	7.9	24.0	130	6.6	26	260	380	71
AUG											
22...	1325	176	351	8.2	21.0	23	7.4	21	190	440	100
SEP											
25...	1430	216	319	8.4	17.5	14	8.6	17	K78	100	97

K: NON-IDEAL COLONY COUNT.

10301500 WALKER RIVER NEAR WABUSKA, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)
OCT 26...	1415	46	11	72	2.5	6.3	240	3	202
NOV 30...	1345	48	11	70	2.4	5.6	240	8	210
DEC 31...	1355	49	12	76	2.5	6.4	260	6	223
JAN 23...	1430	43	10	68	2.4	6.1	240	0	197
FEB 27...	1310	22	5.5	29	1.4	4.3	130	0	107
MAR 31...	1315	28	6.7	39	1.7	3.9	150	2	126
APR 30...	1400	27	6.6	32	1.4	4.0	--	--	110
MAY 29...	1450	22	5.4	27	1.3	3.8	100	0	82
JUN 26...	1105	20	4.8	22	1.1	3.6	100	0	82
JUL 24...	1220	21	4.5	19	1.0	3.4	100	0	84
AUG 22...	1325	30	6.3	32	1.4	4.4	140	0	120
SEP 25...	1430	28	6.6	34	1.5	4.4	150	1	123

DATE	TIME	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)
OCT 26...	1415	85	24	.9	29	390	396	21.1
NOV 30...	1345	95	23	.9	27	407	408	76.9
DEC 31...	1355	94	24	.9	31	406	430	68.0
JAN 23...	1430	85	24	.9	31	391	390	129
FEB 27...	1310	35	9.3	.5	18	187	189	338
MAR 31...	1315	40	13	.6	16	225	221	165
APR 30...	1400	32	10	.6	15	198	194	258
MAY 29...	1450	25	8.5	.5	15	180	166	357
JUN 26...	1105	21	4.0	.2	15	163	141	430
JUL 24...	1220	22	4.9	.4	17	145	143	226
AUG 22...	1325	37	9.3	.4	19	212	212	101
SEP 25...	1430	38	12	.5	19	223	221	130

10301500 WALKER RIVER NEAR WABUSKA, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)
OCT 26...	1415	.00	.010	.02	.170	.010	.58	.51
NOV 30...	1345	.14	.010	.14	.080	.100	.45	.50
DEC 31...	1355	.33	.020	.34	.020	.000	1.1	.93
JAN 23...	1430	.57	.020	.62	--	.060	--	.63
FEB 27...	1310	.11	.020	.16	.080	.000	1.1	1.0
MAR 31...	1315	.04	.010	.05	.040	.040	.75	.52
APR 30...	1400	.10	.000	.11	.000	.000	1.0	.41
MAY 29...	1450	.07	.020	.10	.070	.010	.73	--
JUN 26...	1105	--	.000	.07	--	.080	--	.35
JUL 24...	1220	.13	.010	.03	.000	.000	1.3	.58
AUG 22...	1325	.17	.000	.15	.030	.000	.65	.38
SEP 25...	1430	.02	.000	.00	.020	.030	.51	.38

DATE	TIME	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED (MG/L AS C)
OCT 26...	1415	.75	.54	.120	.100	6.4	--	--
NOV 30...	1345	.68	.74	.090	.060	5.4	--	--
DEC 31...	1355	1.5	1.3	.110	.070	--	--	--
JAN 23...	1430	--	1.3	.200	.100	8.1	--	--
FEB 27...	1310	1.3	1.2	.360	.050	12	--	--
MAR 31...	1315	.84	.61	.150	.070	--	6.2	1.3
APR 30...	1400	1.1	.52	.210	.070	10	--	--
MAY 29...	1450	.89	--	.190	.060	7.5	--	--
JUN 26...	1105	--	.50	.060	.060	--	5.0	1.4
JUL 24...	1220	1.4	.61	.430	.120	8.7	--	--
AUG 22...	1325	.85	.53	.210	.120	--	6.3	1.1
SEP 25...	1430	.55	.41	.170	.090	5.5	--	--

10301500 WALKER RIVER NEAR WABUSKA, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM TOTAL (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)
OCT 26...	1415	--	--	--	--	490	--	--	--	--	--	--
NOV 30...	1345	--	--	--	--	470	--	--	--	--	--	--
DEC 31...	1355	17	20	200	70	470	0	<1	0	0	0	<3
JAN 23...	1430	--	--	--	--	500	--	--	--	--	--	--
FEB 27...	1310	--	--	--	--	210	--	--	--	--	--	--
MAR 31...	1315	15	10	100	40	260	0	<1	0	0	2	<3
APR 30...	1400	--	--	--	--	280	--	--	--	--	--	--
MAY 29...	1450	--	--	--	--	240	--	--	--	--	--	--
JUN 26...	1105	12	11	100	30	230	0	<1	0	--	4	<3
JUL 24...	1220	--	--	--	--	160	--	--	--	--	--	--
AUG 22...	1325	15	13	100	40	260	0	<1	0	0	2	<3
SEP 25...	1430	--	--	--	--	320	--	--	--	--	--	--

DATE	TIME	COPPER, TOTAL (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)
DEC 31...	1355	0	0	630	50	4	0
MAR 31...	1315	10	4	2700	110	6	1
JUN 26...	1105	14	4	7400	30	9	0
AUG 22...	1325	10	4	2100	40	5	0

DATE	TIME	MANGA- NESE, TOTAL (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)
DEC 31...	1355	100	20	.1	.1	2	0
MAR 31...	1315	170	20	.2	.0	5	0
JUN 26...	1105	310	10	.3	.0	6	5
AUG 22...	1325	130	20	.2	.0	7	0

DATE	TIME	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
DEC 31...	1355	0	0	0	0	50	4
FEB 27...	1310	--	--	0	--	--	--
MAR 31...	1315	0	0	0	0	20	<3
MAY 29...	1450	--	--	0	--	--	--
JUN 26...	1105	0	0	0	0	30	10
JUL 24...	1220	--	--	0	--	--	--
AUG 22...	1325	0	0	0	0	20	7

10301500 WALKER RIVER NEAR WABUSKA, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	AROCLOR TOTAL 1254 PCB SERIES (UG/L)	PCB TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR-DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)
FEB								
27...	1310	--	ND	ND	ND	ND	ND	ND
MAY								
29...	1450	.1	--	ND	ND	ND	ND	ND
AUG								
22...	1325	--	--	ND	ND	ND	ND	ND

DATE	DI-AZINON, TOTAL (UG/L)	DI-ELDRIN TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA-CHLOR-TOTAL (UG/L)	HEPTA-CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA-THION, TOTAL (UG/L)
FEB								
27...	ND	ND	ND	ND	ND	ND	ND	ND
MAY								
29...	ND	ND	ND	ND	ND	ND	ND	ND
AUG								
22...	ND	ND	ND	ND	ND	ND	ND	ND

DATE	METH-OXY-CHLOR, TOTAL (UG/L)	METHYL PARA-THION, TOTAL (UG/L)	METHYL TRI-THION, TOTAL (UG/L)	PARA-THION, TOTAL (UG/L)	TOX-APHENE, TOTAL (UG/L)	TOTAL TRI-THION (UG/L)
FEB						
27	ND	ND	ND	ND	ND	ND
MAY						
29	ND	ND	ND	ND	ND	ND
AUG						
22	ND	ND	ND	ND	ND	ND

ND: NONE DETECTED.

10301500 WALKER RIVER NEAR WABUSKA, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE	NOV 30,79	MAR 31,80	APR 30,80	MAY 29,80
TIME	1345	1315	1400	1450
TOTAL CELLS/ML	1800	5500	670	1200
DIVERSITY: DIVISION	0.6	0.7	0.1	1.1
.CLASS	0.6	0.7	0.1	1.1
..ORDER	0.8	0.9	0.8	1.3
...FAMILY	2.7	2.6	1.5	1.7
....GENUS	3.0	3.0	1.6	1.7

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...CHARACIACEAE								
....SCHROEDERIA	--	-	--	-	--	-	13	1
...OOCYSTACEAE								
....ANKISTRODESMUS	--	-	60	1	--	-	--	-
....CHLORELLA	--	-	--	-	--	-	13	1
....DICTYOSPHAERIUM	--	-	--	-	--	-	--	-
....SELENASTRUM	--	-	--	-	--	-	--	-
...SCENEDESMACEAE								
....SCENEDESMUS	--	-	--	-	--	-	--	-
....TETRASTRUM	--	-	--	-	--	-	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	-	--	-	--	-	--	-
..ZYGNEMATALES								
...DESMIDIACEAE								
....STAURASTRUM	--	-	--	-	--	-	--	-
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	51	3	120	2	52	8	52	4
....MELOSIRA	10	1	--	-	52	8	--	-
....STEPHANODISCUS	--	-	180	3	--	-	--	-
..PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	10	1	30	1	--	-	--	-
....COCCONEIS	31	2	91	2	--	-	--	-
...CYMBELLACEAE								
....CYMBELLA	20	1	91	2	--	-	--	-
....EPITHEMIA	10	1	--	-	--	-	--	-
...DIATOMACEAE								
....DIATOMA	510#	28	180	3	--	-	--	-
...FRAGILARIACEAE								
....ASTERIONELLA	--	-	76	1	--	-	620#	52
....FRAGILARIA	370#	20	2300#	42	460#	69	--	-
....SYNEDRA	72	4	230	4	--	-	--	-
...GOMPHONEMATACEAE								
....GOMPHONEMA	10	1	300	5	26	4	--	-
...NAVICULACEAE								
....NAVICULA	230	12	470	8	26	4	13	1
...NITZSCHIACEAE								
....NITZSCHIA	240	13	420	8	39	6	90	8
...SURIRELLACEAE								
....CYMATOPLEURA	--	-	30	1	--	-	--	-
....SURIRELLA	41	2	200	4	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)								
.CRYPTOPHYCEAE								
..CRYPTOMONADALES								
...CRYPTOMONADACEAE								
....CRYPTOMONAS	--	-	--	-	13	2	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROOCOCCALES								
...CHROOCOCCACEAE								
....ANACYSTIS	--	-	--	-	--	-	--	-
..HORMOGONALES								
...NOSTOCACEAE								
....ANABAENA	--	-	--	-	--	-	400#	33
....APHANIZOMENON	--	-	--	-	--	-	--	-
...OSCILLATORIACEAE								
....OSCILLATORIA	--	-	740	13	--	-	--	-
....SCHIZOTHRIX	190	11	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....EUGLENA	20	1	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

10301500 WALKER RIVER NEAR WABUSKA, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE	JUN 26,80	JUL 24,80	AUG 22,80	SEP 25,80
TIME	1105	1220	1325	1430
TOTAL CELLS/ML	3400	1200	760	9700
DIVERSITY: DIVISION	0.8	1.2	0.4	0.4
.CLASS	0.8	1.2	0.4	0.4
..ORDER	0.9	1.7	0.9	0.5
...FAMILY	1.1	2.4	1.8	0.7
....GENUS	1.2	2.5	2.0	0.8

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...CHARACIACEAE								
....SCHROEDERIA	--	-	--	-	--	-	*	0
...OOCYSTACEAE								
....ANKISTRODESMUS	26	1	13	1	--	-	*	0
....CHLORELLA	--	-	--	-	--	-	--	-
....DICTYOSPHAERIUM	--	-	--	-	26	3	--	-
....SELENASTRUM	--	-	--	-	13	2	--	-
...SCENEDESMACEAE								
....SCENEDESMUS	--	-	26	2	26	3	52	1
....TETRASTRUM	--	-	--	-	--	-	52	1
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	*	0	13	1	--	-	*	0
..ZYGNEMATALES								
...DESMIDIACEAE								
....STAURASTRUM	--	-	--	-	--	-	52	1
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	26	1	26	2	26	3	*	0
....MELOSIRA	--	-	320#	27	52	7	--	-
....STEPHANODISCUS	--	-	--	-	--	-	--	-
..PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	--	-	--	-	--	-	*	0
....COCCONEIS	*	0	26	2	13	2	*	0
...CYMBELLACEAE								
....CYMBELLA	*	0	--	-	--	-	--	-
....EPITHEMIA	--	-	--	-	--	-	--	-
...DIATOMACEAE								
....DIATOMA	*	0	--	-	--	-	*	0
...FRAGILARIACEAE								
....ASTERIONELLA	460	14	--	-	--	-	--	-
....FRAGILARIA	26	1	--	-	480#	63	--	-
....SYNEDRA	*	0	13	1	--	-	*	0
...GOMPHONEMATACEAE								
....GOMPHONEMA	--	-	13	1	13	2	*	0
...NAVICULACEAE								
....NAVICULA	39	1	13	1	13	2	130	1
...NITZSCHIACEAE								
....NITZSCHIA	64	2	170	14	100	14	100	1
...SURIRELLACEAE								
....CYMATOPLEURA	--	-	--	-	--	-	--	-
....SURIRELLA	--	-	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)								
.CRYPTOPHYCEAE								
..CRYPTOMONADALES								
...CRYPTOMONADACEAE								
....CRYPTOMONAS	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROOCOCCALES								
...CHROOCOCCACEAE								
....ANACYSTIS	--	-	--	-	--	-	180	2
..HORMOGONALES								
...NOSTOCACEAE								
....ANABAENA	2700#	79	120	10	--	-	--	-
....APHANIZOMENON	--	-	--	-	--	-	8800#	91
...OSCILLATORIACEAE								
....OSCILLATORIA	--	-	440#	37	--	-	160	2
....SCHIZOTHRIX	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....EUGLENA	*	0	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

10301500 WALKER RIVER NEAR WABUSKA, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PERIPHYTON

RETRIEVAL DATE	LENGTH OF EXPOSURE POLYETHYLENE STRIP (DAYS)	BIOMASS (G/M^2) DRY WEIGHT	BIOMASS (G/M^2) ASH WEIGHT	CHLOROPHYLL A (MG/M^2)	CHLOROPHYLL B (MG/M^2)
Jan 23	23	.080	.000	.000	.000
Aug 22	29	.315	.315	.070	.000
Sep 25	34	.472	.394	.180	.000

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 26...	1415	20	12	.65	--
NOV 30...	1345	70	47	8.9	--
DEC 31...	1355	62	19	3.2	--
JAN 23...	1430	122	84	28	--
FEB 27...	1310	670	533	964	68
MAR 31...	1315	272	220	162	41
APR 30...	1400	483	318	415	--
MAY 29...	1450	734	412	817	39
JUN 26...	1105	976	486	1280	46
JUL 24...	1220	577	514	801	--
AUG 22...	1325	176	99	47	--
SEP 25...	1430	216	90	50	38

10301600 WALKER RIVER ABOVE WEBER RESERVOIR NEAR SCHURZ, NV

LOCATION.--Lat 39°06'12", long 118°55'42", in NW¼SE¼ sec.2, T.14 N., R.27 E., Lyon County, Hydrologic Unit 16050303, on left bank, 5.5 mi (8.8 km) upstream from Weber Dam, about 11 mi (18 km) downstream from gage near Wabuska, and 12 mi (19 km) northwest of Schurz.

DRAINAGE AREA.--2,700 mi^2 (7,000 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1977 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,215 ft (1,285 m) from topographic map.

REMARKS.--Records good except those above 600 ft^3/s (17.0 m^3/s), which are poor. Many diversions for irrigation above station. Flow regulated by Bridgeport Reservoir and Topaz Reservoir, combined capacity, 101,900 acre-ft (126 hm^3).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 2,000 ft^3/s (56.6 m^3/s) July 5, 1980, gage height, unknown; no flow July 16-18, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, about 2,000 ft^3/s (56.6 m^3/s) July 5, gage height, unknown, minimum, 19 ft^3/s (0.54 m^3/s) Oct. 11, 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	39	60	63	94	227	280	475	610	1200	659	192
2	41	44	67	71	90	200	268	521	617	1350	559	221
3	35	54	70	77	88	181	216	535	602	1500	450	239
4	35	57	69	75	89	166	193	521	525	1700	372	237
5	32	57	65	70	88	150	163	528	472	1900	320	201
6	31	56	65	66	88	128	164	600	441	1800	250	188
7	26	47	63	66	88	118	170	680	388	1500	180	211
8	23	47	58	66	86	334	151	760	361	1380	261	227
9	24	49	56	65	85	481	105	880	345	1100	203	213
10	23	51	55	66	84	505	91	860	324	800	164	302
11	21	46	54	67	83	519	89	900	380	640	181	353
12	21	44	53	73	83	512	89	870	485	620	183	348
13	24	40	53	82	82	512	121	800	488	610	167	322
14	25	38	53	77	82	514	133	698	358	600	169	322
15	33	37	54	416	83	341	117	667	312	559	145	283
16	39	36	55	524	84	245	108	556	320	472	196	258
17	39	37	58	301	86	215	100	495	377	466	233	252
18	41	35	60	221	87	201	99	498	492	501	237	231
19	45	39	62	187	95	233	112	531	643	528	300	207
20	35	38	64	159	143	270	186	495	727	570	272	185
21	26	40	66	138	296	275	336	485	727	573	227	194
22	30	43	64	126	559	276	466	660	940	531	173	207
23	27	47	60	119	608	240	528	720	1070	426	207	215
24	30	50	60	112	656	195	531	760	1080	460	283	246
25	31	56	68	107	667	183	517	760	1000	538	270	237
26	24	58	70	100	672	203	472	730	880	559	250	225
27	22	56	70	102	676	270	434	698	920	549	276	205
28	23	51	67	99	516	281	419	682	1000	531	223	201
29	29	53	62	97	299	270	425	667	1020	591	219	190
30	32	58	59	95	---	269	418	613	1050	663	217	174
31	31	---	59	93	---	270	---	570	---	710	209	---
TOTAL	941	1403	1899	3980	6737	8784	7501	20215	18954	25927	8055	7086
MEAN	30.4	46.8	61.3	128	232	283	250	652	632	836	260	236
MAX	45	58	70	524	676	519	531	900	1080	1900	659	353
MIN	21	35	53	63	82	118	89	475	312	426	145	174
AC-FT	1870	2780	3770	7890	13360	17420	14880	40100	37600	51430	15980	14060

CAL YR 1979 TOTAL 49531 MEAN 136 MAX 880 MIN 21 AC-FT 98240
WTR YR 1980 TOTAL 111482 MEAN 305 MAX 1900 MIN 21 AC-FT 221100

10301600 WALKER RIVER ABOVE WEBER RESERVOIR NEAR SCHURZ, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 1977 to current year.
CHEMICAL ANALYSES: June 1977 to current year, monthly.
SPECIFIC CONDUCTANCES AND WATER TEMPERATURES: June to October 1977, twice-monthly; November 1977 to current year, monthly.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 705 micromhos Jan. 30, 1978; minimum, 239 micromhos May 31, 1979.
WATER TEMPERATURES: Maximum, 27.5°C July 19, 1979; minimum, freezing point Dec. 21, 1978.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	BORON, DIS-SOLVED (UG/L AS B)
OCT										
26...	1120	25	592	8.5	170	51	11	67	2.2	440
NOV										
30...	1145	61	630	1.5	160	47	11	69	2.4	450
DEC										
31...	1235	58	640	3.0	170	49	12	76	2.5	480
JAN										
23...	1215	119	615	4.0	150	43	9.9	67	2.4	510
FEB										
27...	1050	649	295	7.0	78	22	5.6	31	1.5	220
MAR										
31...	1130	263	360	9.0	98	28	6.7	37	1.6	280
APR										
30...	1100	415	378	14.0	85	24	6.0	31	1.5	270
MAY										
29...	1030	E700	279	15.5	85	24	6.0	26	1.2	240
JUN										
26...	0925	852	247	18.0	69	20	4.7	22	1.2	230
JUL										
24...	1110	527	244	23.5	71	21	4.6	21	1.1	170
AUG										
22...	1215	177	364	--	100	31	6.5	33	1.4	270
SEP										
25...	1205	244	318	15.5	97	28	6.5	32	1.4	250

E: ESTIMATED

10301750 WALKER RIVER AT DIVERSIONS ABOVE SCHURZ, NV

LOCATION.--Lat 39°00'51", long 118°51'37", in SE¼SW¼ sec.4, T.13 N., R.28 E., Lyon County, Hydrologic Unit 16050303, at diversions approximately 2 mi (3 km) downstream from Weber Reservoir and approximately 5 mi (8 km) northwest of Schurz.

DRAINAGE AREA.--2,900 mi^2 (7,500 km^2), approximately.

PERIOD OF RECORD.--May 1977 to current year.
CHEMICAL ANALYSES: June 1977 to current year, monthly.
SPECIFIC CONDUCTANCES: May 1977 to October 1977, twice-monthly; November 1977 to current year, monthly.
WATER TEMPERATURES: June to October 1977, twice-monthly; November 1977 to current year, monthly.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 743 micromhos Sept. 8, 1977; minimum, 241 micromhos, July 24, 1980.
WATER TEMPERATURES: Maximum, 27.0°C Aug. 1, 1977; minimum, 2.5°C Dec. 21, 1978.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	BORON, DIS-SOLVED (UG/L AS B)
OCT										
26...	0955	.38	500	10.5	160	47	11	70	2.4	460
NOV										
30...	1000	.80	540	3.5	130	36	9.2	63	2.4	420
DEC										
31...	1015	9.3	570	3.0	150	42	11	74	2.6	440
JAN										
23...	0900	193	586	4.0	150	42	9.9	66	2.4	590
MAR										
31...	0915	290	386	7.5	100	30	7.0	45	1.9	280
APR										
30...	1000	--	378	14.0	100	29	6.7	39	1.7	300
MAY										
29...	0920	E720	311	14.5	90	26	6.0	30	1.4	260
JUN										
26...	0730	--	303	19.5	84	24	5.8	28	1.3	270
JUL										
24...	0910	E500	241	24.0	72	21	4.7	21	1.1	190
AUG										
22...	0930	227	283	21.5	81	24	5.2	24	1.2	220
SEP										
25...	1010	244	318	17.0	97	28	6.5	32	1.4	280

E: ESTIMATED.

10308200 EAST FORK CARSON RIVER BELOW MARKLEVILLE CREEK, NEAR MARKLEEVILLE, CA

LOCATION.--Lat 38°42'50", long 119°45'50", in SW¼SE¼ sec.15, T.10 N., R.20 E., Alpine County, Hydrologic Unit 16050201, on right bank 0.5 mi (0.8 km) downstream from Markleeville Creek and 1.5 mi (2.4 km) north-northeast of Markleeville.

DRAINAGE AREA.--276 mi^2 (715 km^2).

PERIOD OF RECORD.--August 1960 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,400 ft (1,646 m), from topographic map. Prior to Oct. 1, 1967, at present site at datum 2.00 ft (0.610 m) higher.

REMARKS.--Records good except those for winter months and period of no gage-height record, June 13 to July 29, are poor. A few small diversions for irrigation above station. Flow slightly regulated by several small reservoirs, total capacity, about 5,000 acre-ft (6.16 hm^3). Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--20 years, 350 ft^3/s (9.912 m^3/s), 253,600 acre-ft/yr (313 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,100 ft^3/s (428 m^3/s) Jan. 31, 1963, gage height, 10.21 ft (3.112 m), present datum; minimum, 9.5 ft^3/s (0.27 m^3/s) Nov. 19, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,300 ft^3/s (36.8 m^3/s) and maximum (*).

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 13	2200	*8,000	227	8.68	2.646
May 6	2200	2,660	75.3	5.53	1.686
May 22	unknown	unknown		unknown	
June 20	unknown	unknown		unknown	

Minimum discharge, 48 ft^3/s (1.36 m^3/s) Oct. 6, 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	72	77	215	219	326	255	1250	1090	1720	386	141
2	60	75	79	137	215	317	251	1400	1080	1790	364	135
3	58	84	76	115	211	317	238	1710	1020	1700	335	129
4	58	82	74	104	211	308	245	2030	968	1400	311	131
5	55	79	73	102	219	308	292	2060	857	1290	291	138
6	48	76	74	102	242	289	272	2140	830	1150	276	138
7	48	77	76	99	219	280	250	1920	924	1090	262	156
8	50	81	75	97	211	271	266	1660	1180	1000	251	185
9	53	74	73	109	204	268	317	1550	1430	950	240	178
10	51	72	75	115	204	271	357	1250	1540	900	230	171
11	51	74	61	192	196	280	373	1030	1560	870	225	165
12	51	73	51	2010	192	255	387	889	1480	850	210	166
13	51	74	52	4180	189	263	488	821	1340	840	195	139
14	51	73	51	2680	204	276	609	826	1300	820	188	131
15	51	72	52	956	230	272	638	863	1400	810	186	131
16	53	75	54	712	223	255	712	1050	1530	780	184	126
17	53	81	58	594	500	263	814	1240	1620	790	186	121
18	53	74	64	500	1050	268	949	1450	1780	780	185	118
19	104	62	70	419	771	255	1090	1860	1790	720	179	117
20	182	80	68	382	512	259	1170	2100	1800	650	176	117
21	97	103	68	366	425	251	1000	2250	1780	630	185	113
22	92	99	66	326	387	242	814	2300	1700	620	181	113
23	85	84	102	303	366	242	682	2100	1550	620	198	111
24	87	82	102	289	351	242	650	1750	1400	600	198	107
25	94	98	72	280	331	219	744	1400	1430	570	192	105
26	112	112	68	272	341	215	888	1200	1480	510	192	101
27	92	84	76	259	376	218	1030	1100	1400	520	176	99
28	85	87	88	251	397	218	1160	960	1380	480	170	94
29	81	87	100	246	346	234	1250	950	1580	446	165	92
30	72	79	165	230	---	259	1270	960	1690	436	149	88
31	78	---	268	242	---	251	---	1060	---	409	149	---
TOTAL	2218	2425	2508	16884	9542	8192	19461	45129	41909	26741	6815	3856
MEAN	71.5	80.8	80.9	545	329	264	649	1456	1397	863	220	129
MAX	182	112	268	4180	1050	326	1270	2300	1800	1790	386	185
MIN	48	62	51	97	189	215	238	821	830	409	149	88
AC-FT	4400	4810	4970	33490	18930	16250	38600	89510	83130	53040	13520	7650

CAL YR 1979 TOTAL 121605 MEAN 333 MAX 2370 MIN 48 AC-FT 241200
WTR YR 1980 TOTAL 185680 MEAN 507 MAX 4180 MIN 48 AC-FT 368300

10308800 BRYANT CREEK NEAR GARDNERVILLE, NV

LOCATION.--Lat 38°47'38", long 119°40'18", in NE¼NW¼ sec.30, T.11 N., R.21 E., Douglas County, Hydrologic Unit 16050201 on right bank 500 ft (152 m) upstream from Doud Springs, 1.7 mi (2.7 km) upstream from mouth, and 11 mi (18 km) southeast of Gardnerville.

DRAINAGE AREA.--31.5 mi^2 (81.6 km^2).

PERIOD OF RECORD.--May 1961 to September 1969, October 1977 to September 1980 (discontinued); October 1969 to September 1973 (annual maximum).

GAGE.--Water-stage recorder. Datum of gage is 5,449.70 ft (1,661.07 m) National Geodetic Vertical Datum of 1929, releveled 1940 (levels by Water and Power Resources Service). Prior to July 22, 1963, at same site at datum 0.04 ft (0.012 m) higher.

REMARKS.--Records good. No diversions above station.

AVERAGE DISCHARGE.--11 years (water years 1962-69, 1978-80), 8.02 ft^3/s (0.227 m^3/s), 5,810 acre-ft/yr (7.16 hm3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 975 ft^3/s (27.6 m^3/s) Jan. 31, 1963, gage height 6.40 ft (1.951 m), datum then in use, from floodmarks, from rating curve extended above 63 ft^3/s (1.78 m^3/s) on basis of slope-area measurement of peak flow; minimum, 0.90 ft^3/s (0.025 m^3/s) Feb. 26, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 442 ft^3/s (12.5 m^3/s) Jan. 13, gage height 3.24 ft (0.988 m), on basis of slope-area measurement of peak flow; minimum daily, 1.6 ft^3/s (0.045 m^3/s) Dec. 11, result of freezeup.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	3.0	3.1	7.6	4.4	14	8.2	41	15	5.8	3.8	3.4
2	2.4	3.0	3.3	4.3	4.4	13	8.2	41	14	6.1	3.6	3.4
3	2.3	3.4	3.1	4.1	4.4	13	7.9	46	13	5.8	3.6	3.4
4	2.3	3.4	3.1	3.9	4.5	12	8.2	47	13	5.4	3.4	3.4
5	2.4	3.3	3.0	3.9	4.8	12	9.3	46	12	5.4	3.4	3.6
6	2.4	3.1	3.0	3.9	5.0	11	9.3	48	11	5.2	3.4	3.6
7	2.4	3.1	3.1	3.8	4.8	11	9.0	46	11	5.0	3.4	3.6
8	2.5	3.3	3.3	3.6	4.5	10	11	42	10	5.0	3.4	4.2
9	2.5	3.1	3.3	3.8	4.0	10	15	39	10	4.8	3.3	3.8
10	2.4	3.0	3.1	3.1	4.2	11	17	36	10	4.8	3.3	3.8
11	2.4	3.0	1.6	4.7	4.2	10	17	35	9.6	4.5	3.3	3.6
12	2.5	3.0	1.9	42	4.2	9.3	19	31	9.3	4.5	3.3	3.6
13	2.7	3.0	2.8	141	4.0	10	24	29	9.3	4.5	3.3	3.4
14	2.7	3.0	3.4	58	4.4	11	30	34	8.7	4.8	3.3	3.6
15	2.7	3.3	3.3	21	4.5	11	31	30	8.4	4.5	3.3	3.6
16	2.7	3.3	3.1	13	4.5	9.6	35	29	8.2	4.4	3.4	3.6
17	2.7	3.3	3.1	11	11	10	38	29	7.6	4.4	3.4	3.4
18	2.7	3.0	3.1	9.3	46	10	43	29	7.3	4.2	3.4	3.4
19	3.0	1.8	3.3	7.9	44	9.3	46	29	7.1	4.2	3.4	3.4
20	4.1	1.9	3.1	6.3	23	9.0	49	28	6.8	4.2	3.3	3.4
21	3.3	2.3	3.3	6.6	19	9.0	41	27	6.6	4.2	3.3	3.6
22	3.0	3.3	2.7	5.8	16	8.7	34	26	6.6	4.0	3.8	3.6
23	3.0	3.8	3.6	5.2	15	8.7	30	25	6.3	4.0	4.2	3.4
24	2.8	4.1	5.3	5.4	13	8.2	29	23	6.3	3.8	3.8	3.4
25	3.0	3.4	3.3	5.0	13	7.3	35	22	6.3	3.8	3.6	3.4
26	3.1	3.4	3.6	5.0	15	7.3	39	20	5.8	3.8	3.4	3.4
27	3.0	2.7	3.0	4.8	19	7.3	42	19	5.8	3.8	3.4	3.4
28	3.0	2.8	3.3	4.8	20	7.1	43	19	5.8	4.0	3.4	3.4
29	3.0	3.4	3.8	4.8	16	7.9	43	18	5.6	4.0	3.4	3.3
30	2.8	3.1	5.3	4.4	---	8.7	44	17	5.8	3.8	3.4	3.3
31	3.0	---	8.4	4.5	---	8.2	---	16	---	3.8	3.6	---
TOTAL	85.2	92.6	105.7	412.5	340.8	304.6	815.1	967	262.2	140.5	107.3	105.4
MEAN	2.75	3.09	3.41	13.3	11.8	9.83	27.2	31.2	8.74	4.53	3.46	3.51
MAX	4.1	4.1	8.4	141	46	14	49	48	15	6.1	4.2	4.2
MIN	2.3	1.8	1.6	3.1	4.0	7.1	7.9	16	5.6	3.8	3.3	3.3
AC-FT	169	184	210	818	676	604	1620	1920	520	279	213	209

CAL YR 1979 TOTAL 1760.2 MEAN 4.82 MAX 28 MIN 1.6 AC-FT 3490
WTR YR 1980 TOTAL 3738.9 MEAN 10.2 MAX 141 MIN 1.6 AC-FT 7420

10309000 EAST FORK CARSON RIVER NEAR GARDNERVILLE, NV

LOCATION.--Lat 38°50'50", long 119°42'10", in SW¼NE¼ sec.2, T.11 N., R.20 E., Douglas County, Hydrologic Unit 16050201, on left bank 0.1 mi (0.2 km) downstream from Horseshoe Bend, 2 mi (3 km) east of Mud Lake Reservoir, 4.5 mi (7.2 km) downstream from Bryant Creek, and 7 mi (11 km) southeast of Gardnerville.

DRAINAGE AREA.--356 mi^2 (922 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1890 to December 1893, October 1900 to December 1906 (gage heights only August to December 1904 and July 1905 to December 1906), January 1908 to December 1910, June to October 1917, December 1924 to September 1928, June to September 1929, October 1935 to December 1937, May 1[illegible] to current year. Monthly discharge only for some periods published in WSP 1314.

REVISED RECORDS.--WSP 1214: 1938 (M), 1942-43 (M), 1945 (M). WSP 1514: 1909-10. WDR NV-79-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,985.11 ft (1,519.462 m) National Geodetic Vertical Datum of 1929 (levels by Bureau of Reclamation). Prior to May 19, 1939, nonrecording gages at several sites within 2 mi (3 km) of present site at various datums.

REMARKS.--Records good. Station is above all diversions in Carson Valley. Diversions for irrigation above station. Flow slightly regulated by several small reservoirs, total capacity, about 5,000 acre-ft (6.16 hm^3).

AVERAGE DISCHARGE.--54 years (1890-93, 1900-1903, 1908-10, 1925-28, 1935-37, 1939-80), 384 ft^3/s (10.87 m^3/s), 278,200 acre-ft/yr (343 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,600 ft^3/s (498 m^3/s) Dec. 23, 1955, gage height, 11.88 ft (3.621 m), from rating curve extended above 6,000 ft^3/s (170 m^3/s) on basis of slope-area measurements at gage heights 9.66 ft (2.944 m) and 11.88 ft (3.621 m); minimum observed, 7.8 ft^3/s (0.221 m^3/s) Nov. 20, 1977, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,300 ft^3/s (36.8 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 13	2300	*7,910	224	7.78	2.371	May 6	2400	2,470	70.0	4.24	1.292
Feb. 18	1500	1,560	44.2	3.47	1.058	May 22	2400	2,550	72.2	4.35	1.326
Apr. 19	2400	1,600	45.3	3.43	1.045	June 20	0400	1,980	56.1	3.91	1.192

Minimum discharge, 43 ft^3/s (1.218 m^3/s) Nov. 20 (1700 hrs).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66	81	85	233	228	384	306	1490	1090	1690	381	135
2	65	79	92	155	220	367	301	1590	1170	1740	359	129
3	63	88	88	134	216	370	284	1860	1110	1480	334	121
4	62	95	83	124	215	358	294	2090	1010	1350	308	119
5	60	88	83	116	217	358	342	2090	893	1200	285	131
6	54	83	81	116	243	344	337	2100	840	1100	268	128
7	52	83	83	116	228	329	315	2080	920	1010	252	141
8	53	88	85	111	214	318	321	1820	1170	961	238	185
9	57	81	83	116	201	314	382	1730	1400	908	226	178
10	56	79	85	139	211	317	441	1450	1510	870	215	170
11	53	79	75	136	203	329	464	1210	1540	847	209	163
12	54	77	58	1290	198	293	470	1070	1480	829	198	162
13	56	79	58	3390	191	296	588	960	1350	819	185	135
14	57	77	59	3330	201	315	765	960	1220	790	178	127
15	57	77	59	1290	234	309	824	980	1340	785	175	126
16	58	81	61	913	248	291	900	1010	1470	760	173	122
17	59	86	65	717	476	295	1030	1100	1590	782	177	118
18	57	85	73	608	1340	315	1170	1170	1730	758	174	112
19	81	67	81	500	1110	285	1300	1300	1720	689	168	113
20	210	65	77	426	662	289	1430	1540	1770	634	162	112
21	120	112	79	403	544	288	1300	2230	1700	623	173	111
22	106	117	63	367	477	279	1070	2250	1570	611	169	110
23	98	100	69	340	442	270	928	1990	1420	611	189	109
24	98	88	129	320	417	276	865	1600	1340	594	195	104
25	100	103	85	316	386	250	973	1350	1390	545	181	101
26	128	125	75	296	389	243	1160	1200	1430	496	189	98
27	106	95	81	276	424	250	1290	1080	1340	502	169	97
28	97	94	92	272	477	250	1420	950	1270	491	162	93
29	90	95	116	264	403	260	1480	944	1480	447	159	91
30	81	92	129	232	---	305	1540	1040	1650	433	139	88
31	85	---	219	231	---	292	---	1120	---	403	137	---
TOTAL	2439	2639	2651	17277	11015	9439	24290	45354	40913	25758	6527	3729
MEAN	78.7	88.0	85.5	557	380	304	810	1463	1364	831	211	124
MAX	210	125	219	3390	1340	384	1540	2250	1770	1740	381	185
MIN	52	65	58	111	191	243	284	944	840	403	137	88
AC-FT	4840	5230	5260	34270	21850	18720	48180	89960	81150	51090	12950	7400

CAL YR 1979 TOTAL 123079 MEAN 337 MAX 2190 MIN 52 AC-FT 244100
WTR YR 1980 TOTAL 192031 MEAN 525 MAX 3390 MIN 52 AC-FT 380900

10309000 EAST FORK CARSON RIVER NEAR GARDNERVILLE, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1949 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, WATER (DEG C)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM
OCT								
16...	0945	58	226	10.0	3	.47	--	--
NOV								
18...	1000	90	210	4.0	--	--	--	--
DEC								
11...	1205	71	170	2.0	--	--	--	--
JAN								
12...	1405	2580	92	3.5	1790	12,500	--	27
16...	1125	913	116	4.0	135	333	--	--
FEB								
11...	1005	202	157	2.0	6	3.3	--	--
MAR								
10...	1145	300	185	5.5	8	6.5	--	--
APR								
14...	1230	718	130	9.5	191	370	--	--
21...	1215	1270	97	5.5	201	689	--	--
30...	1245	1460	97	7.0	446	1760	--	--
MAY								
06...	1150	1910	71	8.0	417	2150	13	16
20...	1020	1830	62	7.0	455	2250	--	--
JUN								
02...	1110	1170	74	7.0	60	190	--	--
17...	1405	1460	57	12.5	153	603	--	--
JUL								
01...	1315	1630	50	12.0	161	709	--	--
15...	1235	792	61	15.5	19	41	--	--
AUG								
07...	1325	260	103	19.5	4	2.8	--	--
SEP								
11...	1105	164	142	15.0	4	1.8	--	--

DATE	SED. SUSP. FALL DIAM. % FINER THAN .008 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM
OCT								
16...	--	--	--	--	--	--	--	--
NOV								
18...	--	--	--	--	--	--	--	--
DEC								
11...	--	--	--	--	--	--	--	--
JAN								
12...	34	44	55	64	73	85	95	100
16...	--	--	--	47	--	--	--	--
FEB								
11...	--	--	--	--	--	--	--	--
MAR								
10...	--	--	--	--	--	--	--	--
APR								
14...	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--
30...	--	--	--	34	--	--	--	--
MAY								
06...	22	29	37	43	49	61	95	100
20...	--	--	--	33	--	--	--	--
JUN								
02...	--	--	--	--	--	--	--	--
17...	--	--	--	36	--	--	--	--
JUL								
01...	--	--	--	53	--	--	--	--
15...	--	--	--	--	--	--	--	--
AUG								
07...	--	--	--	--	--	--	--	--
SEP								
11...	--	--	--	--	--	--	--	--

10309050 PINE NUT CREEK NEAR GARDNERVILLE, NV

LOCATION.--Lat 38°51'34", long 119°34'02", in NE¼SE¼ sec.36, T.11 N., R.22 E., Douglas County, Hydrologic Unit 16050201, on right bank, 11.5 mi (18.5 km) southeast of Gardnerville.

DRAINAGE AREA.--10.14 mi^2 (26.26 km^2).

PERIOD OF RECORD.--April to September 1980.

GAGE.--Water-stage recorder. Altitude of gage is 6,340 ft (1,932 m), from topographic map.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6.8 ft^3/s (0.19 m^3/s) May 24, 1980, gage height, 3.28 ft (1.000 m); minimum, 0.03 ft^3/s (0.001 m^3/s) Aug. 12, 1980.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							1.7	3.4	2.7	1.1	.39	.25
2							1.9	3.3	2.6	1.1	.32	.20
3							1.8	3.4	2.6	.92	.27	.19
4							1.8	3.5	2.6	.77	.28	.18
5							2.5	3.6	2.5	.65	.29	.19
6												
7							2.2	3.5	2.3	.63	.37	.33
8							2.8	3.4	2.3	.57	.35	.42
9							4.6	3.4	2.3	.64	.31	.37
10							3.8	3.6	2.4	.60	.28	.33
11							3.5	3.7	2.6	.55	.25	.30
12							3.7	3.5	2.8	.55	.25	.26
13							4.1	3.5	2.7	.60	.23	.24
14							4.5	4.6	2.6	.65	.26	.29
15							4.4	4.2	2.4	.55	.32	.31
16							4.4	3.5	2.2	.50	.35	.26
17							4.5	3.2	2.0	.50	.31	.23
18							4.5	3.2	1.9	.45	.29	.23
19							4.5	3.4	1.9	.41	.34	.23
20							4.5	3.8	1.8	.41	.26	.25
21							4.5	4.5	1.7	.41	.26	.27
22							4.7	5.4	1.6	.37	.51	.29
23							4.4	6.2	1.5	.29	.53	.26
24							3.8	6.4	1.4	.29	.50	.24
25							3.5	5.7	1.3	.29	.42	.23
26							3.4	5.1	1.1	.26	.31	.19
27							3.4	4.6	1.0	.29	.28	.17
28							3.5	4.2	.93	.50	.26	.17
29							3.7	3.8	.89	.55	.25	.18
30							3.5	3.4	.97	.45	.27	.18
31							---	3.1	---	.41	.29	---
TOTAL							105.4	123.7	60.09	16.88	10.01	7.48
MEAN							3.51	3.99	2.00	.54	.32	.25
MAX							4.7	6.4	2.8	1.1	.53	.42
MIN							1.7	3.1	.89	.26	.23	.17
AC-FT							209	245	119	33	20	15

10309070 BUCKEYE CREEK NEAR MINDEN, NV

LOCATION.--Lat 38°58'59", long 119°34'23", in NE¼NW¼ sec.24, T.13 N., R.22 E., Douglas County, Hydrologic Unit 16050201, on left bank 10.5 mi (16.9 km) east of Minden

DRAINAGE AREA.--46.3 mi^2 (119.9 km^2).

PERIOD OF RECORD.--April to September 1980.

GAGE.--Water-stage recorder. Altitude of gage is 5,640 ft (1,719 m), from topographic map.

REMARKS.--Records fair. No diversions above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32 ft^3/s (0.906 m^3/s) April 19, 1980, gage height 3.97 ft (1.210 m); no flows many days in August and September 1980.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							1.1	.92	1.1	.20	.01	.00
2							1.2	.84	.89	.22	.00	.00
3							.92	1.4	.75	.17	.00	.00
4							.90	1.7	.80	.11	.00	.00
5							2.2	1.1	.73	.10	.00	.00
6							2.3	.98	.52	.09	.00	.00
7							1.5	1.4	.38	.10	.00	.00
8							1.8	1.3	.28	.09	.00	.03
9							2.4	1.3	.24	.09	.01	.01
10							2.6	1.6	.22	.09	.01	.01
11							2.0	1.9	.22	.09	.00	.01
12							1.9	1.5	.25	.11	.00	.00
13							2.2	1.3	.26	.11	.00	.00
14							2.8	4.9	.24	.12	.00	.00
15							2.8	2.6	.23	.10	.01	.00
16							2.8	1.3	.19	.08	.01	.00
17							2.8	.97	.18	.07	.01	.00
18							2.8	.97	.18	.07	.01	.00
19							5.0	1.0	.19	.06	.01	.00
20							3.1	.95	.18	.05	.01	.00
21							2.6	.96	.18	.04	.01	.01
22							2.8	1.2	.17	.04	.03	.01
23							2.3	1.3	.18	.05	.02	.00
24							1.7	1.4	.19	.05	.02	.00
25							1.5	1.3	.19	.07	.00	.00
26							1.4	1.1	.15	.06	.00	.00
27							1.2	1.2	.14	.06	.00	.00
28							1.2	1.1	.13	.17	.00	.00
29							1.2	1.0	.12	.19	.00	.00
30							1.1	1.2	.17	.31	.00	.00
31							---	1.2	---	.06	.00	---
TOTAL							61.92	42.72	9.65	3.21	.16	.08
MEAN							2.06	1.38	.32	.10	.005	.003
MAX							5.0	4.9	1.1	.31	.03	.03
MIN							.90	.80	.12	.04	.00	.00
AC-FT							123	85	19	6.4	.3	.2

10309100 EAST FORK CARSON RIVER AT MINDEN, NV

LOCATION.--Lat 38°56'48", long 119°46'45", in NE¼NE¼SW¼ sec. 31, T.13 N., R.20 E., Douglas County, Hydrologic Unit 16050201, on right bank on downstream side of bridge on State Highway 88 and 1.0 mi (1.6 km) southwest of Minden.

DRAINAGE AREA.--392 mi^2 (1,015 km^2), approximately.

PERIOD OF RECORD.--March 1974 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,716.11 ft (1,437.470 m), National Geodetic Vertical Datum of 1929 (levels by Nevada Highway Department). Mar. 7 to June 25, 1975 at site 75 ft at same datum.

REMARKS.--Records poor. Many diversions for irrigation above station. Flow slightly regulated by several small reservoirs on tributaries. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--6 years (water years 1975-80), 181 ft^3/s (5.126 m^3/s), 131,100 acre-ft/yr (162 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 8,000 ft^3/s (227 m^3/s) Jan. 14, 1980, gage height, 11.40 ft (3.475 m); minimum, 0.05 ft^3/s (0.001 m^3/s) Sept. 23, 24, Oct. 1-5, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, about 8,000 ft^3/s (227 m^3/s) Jan. 14, gage height, 11.40 ft (3.475 m); minimum daily, 1.0 ft^3/s (0.028 m^3/s) Oct. 1-8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	20	73	331	204	342	250	1170	606	1300	62	5.3
2	1.1	31	74	146	182	323	245	1260	650	1450	52	5.3
3	1.0	47	73	108	176	334	224	1580	625	1240	43	4.4
4	1.0	56	71	95	178	322	219	1890	560	1140	33	3.8
5	1.0	49	69	90	171	318	255	1940	497	926	28	3.8
6	1.0	49	64	84	190	305	273	1820	450	777	22	4.5
7	1.0	45	66	84	182	290	239	1780	486	695	15	4.1
8	1.0	47	69	80	171	279	236	1280	635	636	9.1	3.7
9	1.1	49	69	82	159	263	276	1260	817	579	7.9	3.7
10	1.2	46	69	118	173	250	316	970	939	535	8.3	3.6
11	1.4	46	65	97	167	235	313	788	1030	480	7.9	3.3
12	1.4	47	34	1640	165	220	296	627	1080	452	7.4	3.3
13	1.4	46	42	2900	157	241	360	517	1010	430	6.3	3.2
14	1.4	46	64	6280	163	258	482	506	814	415	6.8	3.0
15	1.4	47	63	1900	171	256	528	501	853	404	7.3	3.0
16	1.4	47	60	919	265	236	587	587	961	359	6.8	2.7
17	1.4	52	60	681	275	238	736	693	1060	355	7.0	2.8
18	1.4	61	59	587	1180	263	887	815	1310	348	6.8	3.1
19	2.7	53	64	490	1380	233	1030	1090	1460	298	6.8	3.3
20	4.9	34	61	421	569	237	1230	1480	1450	251	6.3	3.3
21	8.0	32	61	396	491	246	1090	1820	1400	237	6.6	3.3
22	11	45	54	360	552	248	871	1830	1330	229	6.3	3.3
23	14	77	37	328	489	236	674	1700	1160	229	6.6	3.2
24	19	70	104	310	462	246	545	1150	1020	223	7.4	3.0
25	22	79	82	304	392	217	621	830	987	204	7.9	2.7
26	47	100	51	288	373	213	782	680	1030	174	7.6	2.7
27	44	83	53	265	380	217	933	605	961	165	7.2	2.7
28	38	72	46	250	436	208	1050	555	880	149	6.3	2.7
29	34	75	68	243	365	212	1110	537	1070	134	5.3	2.7
30	27	75	86	209	---	251	1230	560	1200	110	5.3	2.4
31	22	---	203	207	---	235	---	626	---	74	5.3	---
TOTAL	315.2	1626	2114	20293	10218	7972	17888	33447	28331	14998	421.5	101.9
MEAN	10.2	54.2	68.2	655	352	257	596	1079	944	484	13.6	3.40
MAX	47	100	203	6280	1380	342	1230	1940	1460	1450	62	5.3
MIN	1.0	20	34	80	157	208	219	501	450	74	5.3	2.4
AC-FT	625	3230	4190	40250	20270	15810	35480	66340	56190	29750	836	202

CAL YR 1979 TOTAL 71677.59 MEAN 196 MAX 1870 MIN .75 AC-FT 142200
WTR YR 1980 TOTAL 137725.60 MEAN 376 MAX 6280 MIN 1.0 AC-FT 273200

10310000 WEST FORK CARSON RIVER AT WOODFORDS, CA

LOCATION.--Lat 38°46'10", long 119°49'55", in NW¼SE¼ sec.34, T.11 N., R.19 E., Alpine County, Hydrologic Unit 16050201, in Toiyabe National Forest, on left bank 0.3 mi (0.5 km) downstream from bridge on State Highway 88-89, 0.6 mi (1.0 km) southwest of Woodfords, and 3.8 mi (6.1 km) downstream from Willow Creek.

DRAINAGE AREA.--65.4 mi^2 (169.4 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1900 to May 1907, 1910-11 (fragmentary), October 1938 to current year. January 1890 to March 1892, June 1907 to September 1920 (except parts of 1910-11), at site 0.7 mi (1.1 km) downstream; records not equivalent owing to diversions for irrigation. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WDR NV-79-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,754.5 ft (1,753.97 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1938, nonrecording gage at about the same site at different datum. Oct. 1, 1938, to Nov. 11, 1958, water-stage recorder at same site at datum 1.02 ft (0.311 m) lower. Nov. 13, 1958, to Jan. 30, 1963, water-stage recorder at site 150 ft (46 m) downstream at datum 3.06 ft (0.933 m) lower.

REMARKS.--Records fair. One small diversion above station for irrigation. Flow slightly regulated by several small reservoirs, total capacity, about 1,500 acre-ft (1.85 hm^3).

AVERAGE DISCHARGE.--49 years (1900-1907, 1938-80), 111 ft^3/s (3.144 m^3/s), 80,420 acre-ft/yr (99.2 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,890 ft^3/s (138 m^3/s) Feb. 1, 1963, gage height, 9.0 ft (2.74 m), on basis of slope-area measurement of peak flow; minimum, about 5 ft^3/s (0.14 m^3/s) Dec. 23, 1961.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 11, 1937, reached a stage of 8.0 ft (2.44 m), present datum, from floodmarks, discharge, 3,500 ft^3/s (99.1 m^3/s), by slope-area measurement.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 500 ft^3/s (14.2 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 13	2000	1,060	30.0	3.87	1.180	May 4	2200	*1,100	31.2	3.87	1.180
Apr. 19	2200	565	16.0	3.09	0.942	May 20	2300	934	26.4	3.64	1.109

Minimum daily, 11 ft^3/s (0.312 m^3/s) Dec. 26 (backwater from ice).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	18	22	29	65	80	71	596	304	358	91	29
2	13	18	22	26	63	79	67	641	320	367	86	28
3	13	18	21	25	62	75	64	653	302	339	77	27
4	17	18	20	23	63	69	65	746	308	296	71	26
5	17	18	20	23	67	65	67	720	270	257	66	26
6	17	19	20	23	72	72	64	696	254	240	61	26
7	17	19	19	23	64	68	62	620	267	229	58	27
8	17	21	18	22	65	64	64	534	308	224	56	53
9	15	20	17	22	62	63	78	466	348	207	53	64
10	14	19	16	14	60	64	97	360	372	200	50	64
11	13	19	14	23	57	67	111	296	373	196	50	65
12	13	18	13	131	57	64	123	267	355	192	50	64
13	13	18	14	531	56	64	164	256	331	191	50	59
14	13	18	14	615	58	67	214	266	306	187	51	39
15	13	18	13	276	56	65	234	297	319	182	52	29
16	13	19	14	221	55	62	257	358	341	176	52	33
17	13	21	15	188	68	64	305	429	364	178	52	34
18	14	20	16	157	140	66	361	472	391	174	52	34
19	21	16	17	134	126	61	415	567	385	162	52	34
20	41	17	17	123	116	62	431	677	383	153	52	34
21	25	18	16	118	100	63	370	721	362	154	56	33
22	23	21	15	109	90	58	278	729	335	146	56	34
23	22	22	19	105	86	57	257	585	311	142	54	47
24	22	32	14	96	85	58	318	410	297	135	66	47
25	25	42	12	92	82	56	393	338	304	126	69	47
26	28	42	11	86	82	53	458	305	308	114	68	46
27	22	26	13	78	85	53	525	286	284	111	71	45
28	21	26	15	76	88	55	560	296	272	116	58	33
29	18	24	19	72	81	60	623	299	310	110	58	25
30	18	23	24	72	---	72	635	316	351	105	54	24
31	18	---	29	68	---	73	---	327	---	97	36	---
TOTAL	562	648	529	3601	2211	1999	7731	14529	9735	5864	1828	1176
MEAN	18.1	21.6	17.1	116	76.2	64.5	258	469	325	189	59.0	39.2
MAX	41	42	29	615	140	80	635	746	391	367	91	65
MIN	13	16	11	14	55	53	62	256	254	97	36	24
AC-FT	1110	1290	1050	7140	4390	3970	15330	28820	19310	11630	3630	2330

CAL YR 1979 TOTAL 32035 MEAN 87.8 MAX 625 MIN 11 AC-FT 63540
WTR YR 1980 TOTAL 50413 MEAN 138 MAX 746 MIN 11 AC-FT 99990

10310000 WEST FORK CARSON RIVER AT WOODFORDS, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July, September, and December 1949, March 1950 to March 1952, November 1952, March 1960 to July 1961, February 1962 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980*

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)
APR								
29...	1015	485	45	7.2	4.0	5.0	10.3	16
SEP								
18...	1115	34	62	7.4	13.0	.00	8.4	23

DATE	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY FIELD (MG/L AS CACO3)	CHLORIDE, DISSOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)
APR								
29...	5.0	1.0	2.0	.2	1.0	20	1.0	46.0
SEP								
18...	6.0	2.0	3.0	.3	1.3	25	1.0	53.0

* Data from Calif. Dept. of Water Resources.

10310400 DAGGETT CREEK NEAR GENOA, NV

LOCATION.--Lat 38°57'55", long 119°50'55", in SW¼NE¼ sec.28, T.13 N., R.19 E., Douglas County, Hydrologic Unit 16050201, on left bank in Haines Canyon, 0.55 mi (0.88 km) upstream from Foothill Road, and 3.5 mi (5.6 km) south-southwest of Genoa.

DRAINAGE AREA.--3.82 mi^2 (9.89 km^2).

PERIOD OF RECORD.--1964 (miscellaneous site), 1965 (low-flow, partial-record site), October 1965 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,100 ft (1,554 m), from topographic map.

REMARKS.--Records good. No diversions above station. Intermittent pumping of effluent from Lake Tahoe basin by Douglas County Sewer Improvement District No. 1, occurred from February 1969 to November 1971.

AVERAGE DISCHARGE.--15 years, 1.96 ft^3/s (0.0555 m^3/s), 1,420 acre-ft/yr (1.75 hm^3/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 63 ft^3/s (1.78 m^3/s) Aug. 5, 1971, gage height, 2.78 ft (0.847 m), from floodmarks, from rating curve extended above 6 ft^3/s (0.17 m^3/s) on basis of slope-area measurement of peak flow; minimum, 0.50 ft^3/s (0.014 m^3/s) July 6, 1973.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 19 ft^3/s (0.54 m^3/s) Jan. 13, gage height, 1.44 ft (0.439 m) minimum daily, 0.38 ft^3/s (0.011 m^3/s) Ocr. 9-11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.48	.71	.48	1.3	1.4	1.9	2.2	3.1	3.2	2.7	1.1	.83
2	.48	.84	.48	1.3	1.4	2.1	2.3	3.3	3.3	2.9	1.1	.71
3	.48	1.9	.67	1.1	1.4	2.0	2.2	4.8	3.3	2.7	.97	.71
4	.48	.84	.62	1.1	1.4	1.9	2.3	4.4	3.2	2.5	.97	.60
5	.48	.84	.69	1.1	1.4	1.9	2.9	4.0	3.1	2.3	.97	1.1
6	.48	.71	.71	1.1	1.4	1.9	2.5	4.0	3.1	2.3	.97	2.1
7	.48	.71	.70	.97	1.4	1.9	2.4	3.2	3.2	2.1	.97	2.3
8	.60	.71	.64	.97	1.4	1.8	2.4	3.1	3.0	2.1	.97	2.9
9	.38	.84	.62	1.3	1.4	1.8	2.6	2.9	3.0	2.1	.84	2.5
10	.38	.71	.77	1.3	1.3	1.8	2.6	2.6	2.8	1.9	.84	1.7
11	.38	.71	.75	1.5	1.3	1.7	2.5	2.2	2.7	1.9	.71	1.6
12	.48	.84	.78	7.0	1.3	1.8	2.4	2.2	2.6	1.7	.71	1.6
13	.60	.84	.82	10	1.3	1.8	2.7	2.3	2.6	1.7	.71	1.5
14	.60	.84	.78	8.3	1.5	1.7	2.9	2.2	2.6	1.7	.84	1.5
15	.71	.84	.79	4.5	1.6	1.7	2.9	2.4	2.6	1.6	.84	1.5
16	.71	.71	.80	3.4	1.5	1.6	3.1	2.4	2.6	1.6	.84	1.4
17	.71	.84	.78	3.1	2.4	1.7	3.3	2.5	2.6	1.6	.84	1.4
18	.71	.84	.96	2.9	4.7	1.6	3.5	3.0	2.7	1.6	.84	1.3
19	1.3	.84	.97	2.5	4.4	1.7	3.7	3.1	2.8	1.6	.84	1.3
20	1.4	.84	.97	2.3	3.2	1.7	3.4	3.2	2.9	1.6	.84	1.3
21	.97	.84	1.0	2.1	2.8	1.8	2.9	3.4	3.0	1.4	.84	1.3
22	.84	.84	1.0	1.9	2.4	1.9	3.1	3.4	3.0	1.4	1.4	1.3
23	.84	.84	1.3	1.9	2.3	2.0	3.1	2.6	3.0	1.3	1.4	1.2
24	.71	.84	1.2	1.9	2.0	1.9	3.0	2.6	2.8	1.3	1.1	1.1
25	1.4	.97	.99	1.8	2.0	1.9	3.2	2.6	2.7	1.3	.95	1.1
26	.84	.84	.92	1.7	2.0	1.8	3.1	2.6	2.5	1.1	.91	1.1
27	.71	.84	.84	1.6	2.2	2.0	3.3	2.5	2.5	1.1	.84	1.2
28	.71	.84	.93	1.4	2.3	2.0	3.4	2.6	2.5	1.3	.86	1.2
29	.71	.60	.97	1.4	2.1	2.1	3.2	2.6	2.5	1.4	.84	1.2
30	.71	.48	1.8	1.4	---	2.1	3.0	2.6	2.7	1.3	.87	1.2
31	.71	---	2.2	1.4	---	2.2	---	2.8	---	1.3	.87	---
TOTAL	21.47	24.88	27.93	75.54	57.2	57.7	86.1	91.2	85.1	54.4	28.59	41.75
MEAN	.69	.83	.90	2.44	1.97	1.86	2.87	2.94	2.84	1.75	.92	1.39
MAX	1.4	1.9	2.2	10	4.7	2.2	3.7	4.8	3.3	2.9	1.4	2.9
MIN	.38	.48	.48	.97	1.3	1.6	2.2	2.2	2.5	1.1	.71	.60
AC-FT	43	49	55	150	113	114	171	181	169	108	57	83

CAL YR 1979 TOTAL 464.87 MEAN 1.27 MAX 8.7 MIN .38 AC-FT 922
WTR YR 1980 TOTAL 651.86 MEAN 1.78 MAX 10 MIN .38 AC-FT 1290

10310405 CARSON RIVER AT GENOA, NV

LOCATION.--Lat 38°59'52", long 119°49'21", in SW¼SW¼ sec.11, T.13 N., R.19 E., Douglas County, Hydrologic Unit 16050201, on right bank just downstream from bridge on State Route 57 and 1.2 mi (1.9 km) southeast of Genoa.

DRAINAGE AREA.--570 mi^2 (1,480 km^2), approximately.

PERIOD OF RECORD.--April 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,660 ft (1,420 m), from topographic map.

REMARKS.--Records fair. Many diversions for irrigation above station. Flow slightly regulated by several small reservoirs on tributaries. Flow reported is that which is in main channel and is not total flow. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,380 ft^3/s (95.7 m^3/s) Jan. 14, 1980, gage height, 11.51 ft (3.508 m); minimum, 1.1 ft^3/s (0.03 m^3/s) Aug. 31 to Sept. 2, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,380 ft^3/s (95.7 m^3/s) Jan. 14, gage height, 11.51 ft (3.508 m); minimum, 8.9 ft^3/s (0.25 m^3/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	65	99	440	230	385	266	1290	840	1200	122	31
2	9.6	59	99	209	217	361	275	1340	879	1270	124	32
3	10	64	95	160	212	380	258	1570	861	1130	98	31
4	11	82	92	142	204	349	251	1810	777	1030	93	28
5	12	71	89	134	200	352	284	1900	670	896	101	26
6	12	74	86	128	211	355	323	1850	575	765	80	26
7	13	69	86	124	208	335	278	1850	575	677	54	26
8	16	76	89	117	195	319	273	1620	748	565	50	30
9	15	75	87	115	185	298	310	1530	945	500	39	52
10	15	70	87	159	186	296	375	1350	1050	461	30	73
11	14	68	86	142	183	290	411	1140	1100	433	22	71
12	16	70	58	1480	175	259	391	974	1090	408	20	56
13	17	67	50	2520	169	252	469	814	1010	382	21	64
14	18	69	60	2330	173	265	666	836	872	375	21	66
15	20	69	70	1430	185	264	763	800	930	362	21	69
16	23	70	74	1110	203	246	812	840	1040	316	16	68
17	31	78	76	894	348	245	955	900	1100	322	19	65
18	27	91	80	755	1390	268	1090	1000	1250	316	23	50
19	24	80	90	602	1650	243	1210	1020	1240	314	25	51
20	131	56	89	491	1040	243	1290	1350	1290	283	22	59
21	133	50	95	442	780	245	1170	1350	1240	281	20	59
22	103	66	93	406	786	248	923	1750	1170	271	19	61
23	88	115	73	365	716	237	796	1800	1040	271	25	51
24	70	102	161	353	540	243	704	1600	953	271	29	50
25	61	108	143	333	447	218	731	1200	957	301	31	53
26	77	133	86	311	419	213	953	1000	988	272	26	48
27	86	117	78	287	422	220	1080	800	935	249	29	50
28	76	99	69	282	515	214	1230	750	876	216	30	53
29	72	101	89	280	423	220	1210	740	1020	215	27	51
30	68	101	128	251	---	258	1330	740	1130	198	27	51
31	62	---	270	227	---	249	---	900	---	140	27	---
TOTAL	1340.6	2415	2927	17019	12612	8570	21077	38414	29151	14690	1291	1501
MEAN	43.2	80.5	94.4	549	435	276	703	1239	972	474	41.6	50.0
MAX	133	133	270	2520	1650	385	1330	1900	1290	1270	124	73
MIN	9.6	50	50	115	169	213	251	740	575	140	16	26
AC-FT	2660	4790	5810	33760	25020	17000	41810	76190	57820	29140	2560	2980

CAL YR 1979 TOTAL 79823.3 MEAN 219 MAX 1620 MIN 8.9 AC-FT 158300
WTR YR 1980 TOTAL 151007.6 MEAN 413 MAX 2520 MIN 9.6 AC-FT 299500

10311000 CARSON RIVER NEAR CARSON CITY, NV

LOCATION.--Lat 39°06'30", long 119°42'40", in SW¼NW¼ sec.2, T.14 N., R.20 E., Carson City, Hydrologic Unit 16050201, on left bank 2 mi (3 km) downstream from Clear Creek, 3 mi (5 km) upstream from Lloyd Bridge on road to Mexican Dam, and 5 mi (8 km) southeast of Carson City Post Office.

DRAINAGE AREA.--886 mi^2 (2,295 km^2).

PERIOD OF RECORD.--May 1939 to current year.

REVISED RECORDS.--WDR NV-79-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,620.48 ft (1,408.322 m) National Geodetic Vertical Datum of 1929. Prior to Dec. 23, 1955, water-stage recorder on right bank at datum 1.0 ft (0.305 m) higher. Dec. 23, 1955, to Mar. 13, 1956, nonrecording gage at present site at datum 1.0 ft (0.305 m) higher. Mar. 14, 1956, to Sept. 30, 1963, water-stage recorder at present site at datum 1.0 ft (0.305 m) higher.

REMARKS.--Records good. Many diversions above station for irrigation. Flow slightly regulated by several small reservoirs on tributaries. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--41 years, 396 ft^3/s (11.21 m^3/s), 286,900 acre-ft/yr (354 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,000 ft^3/s (850 m^3/s) Dec. 24, 1955, gage height, 16.0 ft (4.88 m), present datum, from floodmarks, from rating curve extended above 6,000 ft^3/s (170 m^3/s) on basis of slope-area measurements at gage heights 9.40 ft (2.865 m) and 16.0 ft (4.88 m), computation of flow over dam at gage height 12.40 ft (3.780 m), and float measurement at gage height 10.60 ft (3.231 m), all at present datum; minimum daily, 1.6 ft^3/s (0.04 m^3/s) Aug. 29, 30, Sept. 7, 8, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1600 ft^3/s (45.3 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 15	0200	*8,320	236	10.09	3.076	May 22	1700	2,740	77.6	5.82	1.774
Feb. 20	0300	2,880	81.6	5.96	1.817	June 20	1700	2,090	59.2	5.10	1.554
Apr. 20	1600	1,670	47.3	4.76	1.451	July 2	1900	2,050	58.1	5.04	1.536
May 7	1700	2,800	79.3	5.88	1.792						

Minimum daily, 20 ft^3/s (0.57 m^3/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	197	149	611	440	613	431	1690	1180	1820	174	90
2	25	185	152	390	429	582	472	1670	1200	1940	180	79
3	27	188	149	298	424	634	470	1950	1160	1880	168	68
4	27	234	147	277	407	573	441	2360	1100	1700	168	58
5	27	206	147	260	401	550	469	2590	1000	1520	202	51
6	26	194	147	256	390	568	556	2660	907	1320	190	60
7	30	170	147	249	390	582	471	2690	893	1200	144	58
8	35	170	154	241	375	540	446	2440	1010	1040	122	64
9	38	173	160	237	364	495	467	2220	1230	882	105	94
10	40	162	160	316	354	478	518	1960	1390	797	79	152
11	46	157	149	302	349	479	553	1640	1480	738	62	168
12	30	157	142	1160	341	464	578	1390	1540	691	56	147
13	44	154	113	3180	335	444	621	1150	1470	633	53	142
14	46	154	144	5800	329	447	788	1090	1340	580	56	152
15	44	154	168	6800	376	442	902	1110	1300	571	59	135
16	44	154	176	2430	407	429	974	1150	1450	511	53	142
17	53	154	170	1480	549	419	1110	1290	1510	485	44	135
18	53	165	168	1250	1480	435	1230	1500	1720	503	51	124
19	43	160	173	1000	2560	430	1350	1730	1840	517	59	103
20	50	137	179	846	2230	421	1500	2000	1950	498	62	113
21	137	113	181	770	1260	411	1490	2380	1910	460	57	115
22	124	121	202	718	1280	427	1320	2580	1820	432	60	124
23	154	165	170	656	1380	418	1150	2590	1600	399	64	117
24	132	168	254	604	1000	419	1020	2240	1430	374	78	96
25	165	157	349	586	797	405	1030	1720	1390	355	86	98
26	176	176	242	561	718	386	1190	1480	1410	333	89	107
27	234	182	190	521	669	368	1330	1280	1430	300	73	104
28	212	149	173	493	750	366	1480	1150	1290	272	65	122
29	216	144	194	493	698	367	1540	1100	1380	279	71	117
30	206	149	241	466	---	392	1680	1080	1650	263	87	114
31	200	---	493	435	---	422	---	1150	---	220	77	---
TOTAL	2704	4949	5783	33686	21482	14406	27577	55030	41980	23513	2894	3249
MEAN	87.2	165	187	1087	741	465	919	1775	1399	758	93.4	108
MAX	234	234	493	6800	2560	634	1680	2690	1950	1940	202	168
MIN	20	113	113	237	329	366	431	1080	893	220	44	51
AC-FT	5360	9820	11470	66820	42610	28570	54700	109200	83270	46640	5740	6440

CAL YR 1979 TOTAL 129467.8 MEAN 355 MAX 4340 MIN 9.4 AC-FT 256800
WTR YR 1980 TOTAL 237253.0 MEAN 648 MAX 6800 MIN 20 AC-FT 470600

10311100 KINGS CANYON CREEK NEAR CARSON CITY, NV

LOCATION.--Lat 39°09'14", long 119°48'24", in NE¼NE¼ sec.23, T.15 N., R.19 E., Carson City, Hydrologic Unit 16050201, 2 mi (3.2 km) west of Carson Street off Kings Canyon Road.

DRAINAGE AREA.--4.06 mi^2 (10.52 km^2).

PERIOD OF RECORD.--June 1976 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,180 ft (1,580 m), from topographic map.

REMARKS.--Records good. Diversion for municipal use above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32 ft^3/s (0.906 m^3/s) Jan. 11, 1979, gage height, 4.81 ft (1.466 m); maximum gage height, 4.98 ft (1.518 m) Dec. 20, 1978 (backwater from ice); minimum daily, 0.16 ft^3/s (0.005 m^3/s) June 12, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 30 ft^3/s (0.850 m^3/s) Jan. 13, gage height, 4.83 ft (1.472 m); minimum daily, 0.46 ft^3/s (0.013 m^3/s) Dec. 23-29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	.80	.52	.65	.88	2.1	1.2	1.5	1.6	2.7	2.2	2.1
2	1.4	.80	.52	.52	.96	2.7	1.6	1.5	1.7	2.9	2.2	2.1
3	1.4	.80	.52	.52	1.2	2.6	1.3	1.7	2.1	2.9	2.1	2.1
4	1.4	.72	.52	.52	1.2	2.1	1.2	1.8	2.4	2.9	2.1	2.1
5	1.4	.72	.52	.52	1.2	2.2	2.9	1.8	1.8	2.7	2.2	2.2
6	1.3	.72	.52	.52	1.2	2.1	1.8	1.8	1.4	2.4	2.2	2.4
7	1.3	.72	.52	.52	1.0	3.2	1.5	1.6	1.5	2.6	2.2	2.6
8	1.3	.65	.52	.50	1.2	3.4	1.4	1.5	1.3	2.6	2.2	2.6
9	1.3	.65	.52	.50	1.2	3.1	1.3	1.5	1.4	2.2	2.4	2.4
10	1.2	.65	.52	.50	1.2	2.9	1.3	1.5	1.6	2.2	2.1	2.4
11	1.2	.65	.52	.50	1.3	2.7	1.3	1.5	2.1	2.2	2.1	2.4
12	1.2	.65	.52	3.0	1.3	2.7	1.3	1.6	2.6	2.2	2.4	2.4
13	1.1	.65	.52	10	1.2	2.7	1.3	1.5	2.4	2.2	2.4	2.4
14	1.1	.58	.52	4.3	1.5	2.4	1.4	1.4	2.2	2.2	2.4	2.2
15	1.1	.58	.52	1.9	1.6	2.4	1.5	1.4	1.8	2.2	2.2	2.1
16	1.1	.58	.52	1.5	1.6	2.2	1.5	1.4	1.8	2.4	2.2	2.1
17	1.1	.52	.52	1.6	2.2	2.2	1.6	1.4	2.1	2.4	2.1	2.1
18	1.1	.52	.52	1.5	7.7	2.4	1.7	1.3	2.2	2.7	2.1	2.1
19	.96	.52	.52	1.2	8.4	2.2	1.8	1.4	2.2	2.7	2.1	2.1
20	1.1	.55	.52	.96	4.0	2.1	1.8	1.5	2.6	2.4	2.1	2.1
21	1.1	.55	.52	.96	2.7	2.2	1.7	1.6	2.6	2.6	2.1	2.1
22	1.2	.58	.52	.80	3.2	2.9	1.6	1.7	2.2	2.4	2.1	2.0
23	1.1	.58	.46	.59	3.1	2.4	1.4	1.7	2.6	2.4	2.2	2.0
24	.96	.58	.46	.59	2.9	2.1	1.4	1.6	2.6	2.2	2.2	2.0
25	.96	.58	.46	.65	3.1	1.8	1.5	1.6	2.9	2.2	2.1	2.0
26	.96	.58	.46	.72	2.9	1.7	1.5	1.6	2.7	2.2	2.2	2.0
27	.88	.58	.46	.72	2.4	1.8	1.5	1.6	2.8	2.7	2.2	2.0
28	.88	.58	.46	.65	3.1	1.7	1.5	1.6	2.7	2.2	2.2	2.1
29	.88	.58	.46	.65	2.2	1.6	1.5	1.6	2.7	2.2	2.2	2.0
30	.88	.58	.52	.80	---	1.3	1.5	1.6	2.9	2.2	2.2	2.0
31	.80	---	1.2	.80	---	.96	---	1.6	---	2.2	2.2	---
TOTAL	35.16	18.80	16.38	39.66	67.64	70.86	45.8	48.4	65.5	75.2	67.9	65.2
MEAN	1.13	.63	.53	1.28	2.33	2.29	1.53	1.56	2.18	2.43	2.19	2.17
MAX	1.5	.80	1.2	10	8.4	3.4	2.9	1.8	2.9	2.9	2.4	2.6
MIN	.80	.52	.46	.50	.88	.96	1.2	1.3	1.3	2.2	2.1	2.0
AC-FT	70	37	32	79	134	141	91	96	130	149	135	129

CAL YR 1979 TOTAL 370.92 MEAN 1.02 MAX 12 MIN .46 AC-FT 736
WTR YR 1980 TOTAL 616.50 MEAN 1.68 MAX 10 MIN .46 AC-FT 1220

10311200 ASH CANYON CREEK NEAR CARSON CITY, NV

LOCATION.--Lat 39°10'35", long 119°48'16", in NW¼SW¼ sec.12, T.15 N., R.19 E., Carson City, Hydrologic Unit 16050201, on left bank 2 mi (3.2 km) west of intersection of Carson and Bath Streets.

DRAINAGE AREA.--5.20 mi^2 (13.47 km^2).

PERIOD OF RECORD.--July 1976 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,080 ft (1,548 m), from topographic map.

REMARKS.--Records fair. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 33 ft^3/s (0.935 m^3/s) Jan. 13, 1980, gage height, 3.85 ft (1.173 m); minimum daily, 0.80 ft^3/s (0.023 m^3/s) Aug. 15, 16, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 33 ft^3/s (0.935 m^3/s) Jan. 11, gage height, 3.85 ft (1.173 m); minimum daily, 1.5 ft^3/s (0.042 m^3/s) Oct. 18, Nov. 20, 21, Dec. 11, 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	1.8	1.9	2.9	2.2	2.7	2.3	5.3	6.3	4.9	2.9	2.4
2	1.9	1.8	1.9	2.5	2.2	2.7	2.3	5.9	6.1	5.3	2.9	2.3
3	1.8	1.8	1.9	2.4	2.2	2.8	2.2	6.5	5.9	5.1	2.8	2.3
4	1.9	1.8	1.9	2.2	2.2	2.6	2.3	7.2	6.0	4.7	2.8	2.3
5	1.8	1.8	1.9	2.2	2.2	2.5	2.6	6.8	5.8	4.4	2.9	2.7
6	1.8	1.8	1.9	2.1	2.2	2.5	2.5	7.2	5.9	4.4	2.8	2.7
7	1.8	1.8	1.9	2.1	2.2	2.5	2.4	6.5	5.9	4.4	2.8	2.7
8	1.9	1.8	1.9	2.1	2.2	2.4	2.4	6.8	6.1	4.3	2.7	2.6
9	1.8	1.8	1.9	2.1	2.2	2.3	2.7	6.1	6.3	4.2	2.7	2.6
10	1.8	1.8	1.9	2.1	2.2	2.5	2.9	5.3	6.3	4.1	2.7	2.6
11	1.7	1.8	1.5	2.1	2.2	2.6	3.0	5.1	6.3	4.1	2.5	2.6
12	1.7	1.8	1.5	8.0	2.2	2.5	3.0	4.7	6.2	4.1	2.5	2.5
13	1.7	1.8	1.7	22	2.2	2.4	3.4	4.6	6.1	4.0	2.5	2.5
14	1.7	1.8	1.9	14	2.3	2.4	4.1	4.9	6.1	3.9	2.5	2.5
15	1.6	1.8	1.9	5.8	2.4	2.4	4.1	5.2	6.1	3.8	2.6	2.5
16	1.6	1.8	1.9	4.7	2.3	2.4	4.1	5.4	6.3	3.7	2.5	2.4
17	1.6	1.9	1.9	4.1	3.4	2.4	4.7	5.7	6.5	3.5	2.5	2.4
18	1.5	1.8	1.9	3.3	6.3	2.4	5.0	5.7	6.7	3.5	2.6	2.4
19	1.8	1.7	1.9	3.1	5.3	2.3	5.4	6.3	6.7	3.5	2.6	2.4
20	1.7	1.5	1.9	2.8	4.0	2.3	5.7	7.0	6.5	3.5	2.5	2.3
21	1.6	1.5	2.0	2.8	3.4	2.3	5.5	7.2	6.1	3.4	2.5	2.3
22	1.6	1.9	1.9	2.7	3.1	2.2	5.4	7.5	5.9	3.4	2.6	2.3
23	1.6	1.9	1.8	2.6	2.8	2.3	5.2	7.0	5.8	3.3	2.7	2.3
24	1.6	2.2	1.8	2.5	2.7	2.3	5.1	6.4	5.7	3.3	2.6	2.3
25	1.9	2.2	1.8	2.5	2.6	2.2	4.9	6.2	5.5	3.2	2.5	2.2
26	1.8	2.1	1.9	2.5	2.7	2.2	4.9	6.2	5.3	3.1	2.5	2.2
27	1.7	1.8	1.9	2.3	2.8	2.1	5.3	6.1	5.1	3.0	2.4	2.2
28	1.7	1.8	1.9	2.3	2.9	2.1	5.6	6.1	4.9	3.3	2.4	2.2
29	1.7	1.9	2.1	2.3	2.7	2.3	5.7	6.1	4.9	3.1	2.3	2.2
30	1.7	1.9	2.6	2.3	---	2.3	5.5	6.3	4.9	3.0	2.5	2.1
31	1.8	---	3.9	2.3	---	2.3	---	6.2	---	3.1	2.5	---
TOTAL	53.7	54.9	60.6	119.7	80.3	74.2	120.2	189.5	178.2	118.6	80.8	72.0
MEAN	1.73	1.83	1.95	3.86	2.77	2.39	4.01	6.11	5.94	3.83	2.61	2.40
MAX	1.9	2.2	3.9	22	6.3	2.8	5.7	7.5	6.7	5.3	2.9	2.7
MIN	1.5	1.5	1.5	2.1	2.2	2.1	2.2	4.6	4.9	3.0	2.3	2.1
AC-FT	107	109	120	237	159	147	238	376	353	235	160	143

CAL YR 1979 TOTAL 899.0 MEAN 2.46 MAX 13 MIN 1.5 AC-FT 1780
WTR YR 1980 TOTAL 1202.7 MEAN 3.29 MAX 22 MIN 1.5 AC-FT 2390

10311400 CARSON RIVER AT DEER RUN ROAD NEAR CARSON CITY, NV

LOCATION.--Lat 39°10'52", long 119°41'40", in SW¼NW¼ sec.12, T.15 N., R.20 E., Carson City, Hydrologic Unit 16050201, on right bank just downstream from Deer Run Road, 500 ft (152 m) south of Brunswick Road, and 4 mi (6.4 km) east of Carson City.

DRAINAGE AREA.-- 958 mi^2 (2,481 km^2).

PERIOD OF RECORD.--April 1979 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,600 ft (1,400 m) from topographic map.

REMARKS.--Records good. Many diversions above station for irrigation. Flow slightly regulated by several small reservoirs on tributaries.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,650 ft^3/s (217 m^3/s) Jan. 15, 1980, gage height 13.50 ft (4.115 m), minimum daily, 12 ft^3/s (0.34 m^3/s) Aug. 23, 24, 26, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,650 ft^3/s (217 m^3/s) Jan. 15, gage height 13.50 ft (4.115 m), minimum daily, 15 ft^3/s (0.42 m^3/s) Oct. 6, 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	134	152	584	420	675	431	1670	1160	1800	178	79
2	19	132	150	430	410	653	468	1650	1180	1920	171	84
3	20	125	148	315	410	696	473	1950	1140	1860	168	74
4	20	162	143	281	400	653	447	2390	1090	1680	154	61
5	17	160	142	259	395	621	483	2650	984	1500	179	57
6	15	144	138	254	390	640	546	2640	891	1280	179	60
7	15	128	134	250	380	646	471	2580	863	1170	138	62
8	20	126	138	243	370	601	441	2320	1000	976	110	72
9	26	130	143	237	360	548	456	2050	1240	823	97	89
10	26	125	142	293	355	524	510	1830	1440	740	74	143
11	32	123	125	306	350	520	543	1540	1530	691	54	170
12	27	123	116	1110	346	511	551	1290	1630	669	45	151
13	21	123	97	3380	334	492	580	1050	1520	600	40	131
14	30	121	112	5110	335	493	772	998	1390	558	44	161
15	33	125	129	6600	375	483	943	1030	1300	565	50	142
16	31	125	133	2410	391	473	990	1070	1490	524	50	139
17	40	125	135	1430	480	459	1140	1220	1560	483	44	137
18	45	128	135	1170	1440	463	1290	1460	1750	482	40	133
19	46	136	141	936	2670	478	1410	1680	1890	495	48	102
20	46	121	147	789	2370	464	1560	1940	1980	492	53	115
21	168	97	147	706	1330	451	1540	2310	1930	440	44	115
22	150	95	160	658	1310	459	1270	2530	1830	120	51	120
23	166	128	143	605	1450	453	1070	2510	1590	396	60	116
24	148	164	194	563	1040	434	942	2120	1400	376	72	96
25	128	150	345	544	819	431	983	1590	1350	355	79	96
26	152	166	269	522	733	411	1160	1330	1390	338	77	102
27	172	190	203	489	693	388	1340	1140	1400	301	67	102
28	158	160	175	463	772	387	1530	1040	1240	280	59	120
29	148	150	179	463	766	385	1560	1040	1330	273	61	114
30	138	152	220	440	---	398	1670	1020	1610	271	73	112
31	134	---	398	413	---	428	---	1140	---	227	74	---
TOTAL	2209	4068	5133	32253	21894	15718	27570	52778	42098	22985	2633	3255
MEAN	71.3	136	166	1040	755	507	919	1703	1403	741	84.9	109
MAX	172	190	398	6600	2670	696	1670	2650	1980	1920	179	170
MIN	15	95	97	237	334	385	431	998	863	227	40	57
AC-FT	4380	8070	10180	63970	43430	31180	54690	104700	83500	45590	5220	6460

WTR YR 1980 TOTAL 232594 MEAN 636 MAX 6600 MIN 15 AC-FT 461400

10312000 CARSON RIVER NEAR FORT CHURCHILL, NV
(National stream-quality accounting network station)

LOCATION.--Lat 39°17'30", long 119°18'40", in SW¼SE¼ sec.32, T.17 N., R.24 E., Lyon County, Hydrologic Unit 16050202, on right bank 400 ft (122 m) downstream from Buckland ditch, 2 mi (3 km) west of Fort Churchill, and 4.5 mi (7.2 km) upstream from Weeks Bridge on U.S. Highway 95 alternate.

DRAINAGE AREA.--1,302 mi^2 (3,372 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1911 to current year. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WSP 1514: 1917; WDR NV-79-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,214.70 ft (1,284 .1 m) National Geodetic Vertical Datum of 1929. Prior to Apr. 25, 1924, nonrecording gage at site 7.8 mi (12.6 km) upstream at different datum. Apr. 25, 1924, to Dec. 31, 1933, water-stage recorder at site 8 mi (13 km) upstream at different datum. Jan. 1, 1934, to Sept. 30, 1957, water-stage recorder at present site at datum 1.36 ft (0.414 m) higher (levels by Truckee-Carson Irrigation District).

REMARKS.--Records good. Many diversions for irrigation above station, including diversions for irrigation of 720 acres (2.91 km^2) between present site and sites used prior to Jan. 1, 1934. Buckland ditch diverts 400 ft (122 m) upstream for irrigation below station.

AVERAGE DISCHARGE.--69 years, 362 ft^3/s (10.25 m^3/s), 262,200 acre-ft/yr (323 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,300 ft^3/s (433 m^3/s) Feb. 2, 1963, gage height, 10.83 ft (3.301 m); maximum gage height, about 11 ft (3.35 m) in December 1955, present datum, from floodmarks (discharge unknown); no flow during some periods in nearly every year since 1923.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1400 ft^3/s (39.6 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 15	2100	*6,170	175	7.34	2.237	May 23	0500	2,450	69.4	4.98	1.518
Feb. 20	1300	2,660	75.3	5.18	1.579	June 21	0500	1,840	52.1	4.42	1.347
Apr. 21	0500	1,630	46.2	4.26	1.298	July 3	0500	1,810	51.3	4.39	1.338
May 6	0400	2,620	74.2	5.15	1.570						

Minimum daily discharge, 0.51 ft^3/s (0.014 m^3/s), Oct. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.78	107	141	422	449	674	409	1610	1120	1520	215	22
2	.94	108	149	527	450	635	434	1540	1100	1630	173	22
3	.95	107	147	352	443	625	457	1640	1120	1720	161	24
4	.89	105	145	287	433	639	444	1970	1090	1560	152	22
5	.79	127	143	257	418	591	445	2310	1010	1430	139	15
6	.67	122	142	241	409	587	504	2480	914	1260	145	14
7	.51	117	138	235	404	602	510	2370	818	1110	151	19
8	.52	106	135	229	398	590	457	2330	858	997	123	28
9	.58	101	139	225	385	546	435	2020	1020	836	100	37
10	.62	103	141	232	374	517	449	1860	1210	754	83	47
11	.56	101	139	286	374	505	501	1610	1360	686	67	83
12	.61	101	124	359	367	508	538	1380	1450	646	56	111
13	1.1	106	119	2710	359	481	523	1150	1440	607	51	97
14	.91	102	102	4710	353	473	607	1010	1360	560	33	96
15	.84	99	109	5630	365	478	780	1010	1200	532	22	119
16	.74	101	123	4160	389	464	872	1000	1260	528	21	103
17	.90	101	128	1810	432	446	944	1060	1380	477	18	102
18	.89	99	128	1420	725	443	1080	1260	1450	464	8.0	92
19	1.5	94	129	1170	2150	462	1220	1470	1660	470	3.7	90
20	5.2	92	134	952	2520	441	1360	1660	1680	478	5.5	81
21	12	94	137	825	1530	442	1510	1980	1730	437	3.7	78
22	66	96	138	755	1310	472	1370	2270	1690	412	3.7	82
23	92	97	146	694	1400	488	1140	2360	1530	379	3.3	75
24	108	120	141	635	1180	437	975	2250	1330	358	2.8	61
25	96	142	217	604	925	432	909	1690	1220	343	3.7	53
26	85	137	281	585	782	413	981	1380	1210	346	5.9	47
27	98	130	217	554	713	397	1200	1170	1250	326	15	47
28	117	130	182	519	706	387	1360	1060	1180	302	18	43
29	116	125	160	511	771	381	1480	1000	1090	267	9.5	47
30	110	125	166	496	---	383	1500	991	1320	261	7.3	50
• 31	107	---	220	465	---	408	---	1040	---	252	12	---
TOTAL	1027.50	3295	4660	32857	21514	15347	25394	49931	38050	21948	1812.1	1807
MEAN	33.1	110	150	1060	742	495	846	1611	1268	708	58.5	60.2
MAX	117	142	281	5630	2520	674	1510	2480	1730	1720	215	119
MIN	.51	92	102	225	353	381	409	991	818	252	2.8	14
AC-FT	2040	6540	9240	65170	42670	30440	50370	99040	75470	43530	3590	3580

CAL YR 1979 TOTAL 118800.26 MEAN 325 MAX 2760 MIN .51 AC-FT 235600
WTR YR 1980 TOTAL 217642.60 MEAN 595 MAX 5630 MIN .51 AC-FT 431700

10312000 CARSON RIVER NEAR FORT CHURCHILL, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1960 to current year (published as Carson River near Silver Springs, sta. no. 10312020, October 1962 to September 1970).

CHEMICAL ANALYSES: October 1962 to April 1967, once-daily (composited); May 1967 to September 1969, once-daily (composited) and monthly; October 1969 to current year, monthly.

SPECIFIC CONDUCTANCES: October 1962 to June 1970, once-daily; July 1970 to January 1972, monthly; February 1972 to current year, once-daily.

BIOLOGICAL DATA: January 1975 to September 1977, monthly; October 1977 to current year, monthly (seasonal).

MICROBIOLOGICAL DATA: January 1975 to current year, monthly.

WATER TEMPERATURES: April 1960 to September 1962, monthly; October 1962 to June 1970, once-daily; July 1970 to January 1972, monthly; February 1972 to current year, once-daily.

SEDIMENT DATA: January to June 1974, occasional; January 1975 to current year, monthly.

REMARKS.--Monthly water-quality data are collected from Buckland Ditch, which leaves river 400 ft (120 m) upstream from gage, or from river at gage, depending on discharge. Detailed sampling information is available from U.S. Geol. Survey office, Carson City, NV. Discharge data do not include ditch flow. Daily water-quality data are collected from Buckland Ditch, in SE¼ sec.34, T.17 N., R.24 E., about 2 mi (3 km) downstream from gaging station.

EXTREMES MEASURED FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCES: Maximum, 840 micromhos Sept. 13, 1973; minimum, 81 micromhos July 3, 1967.

PHYTOPLANKTON: Maximum, 41,000 cells/mL Aug. 31, 1977; minimum, <1 cells/mL May 17, 1979.

FECAL STREPTOCOCCI: Maximum, 36,000 colonies/100 mL (non-ideal colony count) Jan. 12, 1979; minimum, 4 colonies/100 mL (non-ideal colony count) Jan. 2, 1975.

WATER TEMPERATURES: Maximum, 29.0°C Aug. 7, 1972; minimum, freezing point on many days during winter months of most years.

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 1,950 mg/L Jan. 12, 1979; minimum, 4 mg/L Jan. 2, 1975, Dec. 1, 1976.

EXTREMES FOR CURRENT YEAR (MEASUREMENTS AT LEAST ONCE-DAILY).--

SPECIFIC CONDUCTANCES: Maximum, 665 micromhos Oct. 14; minimum, 89 micromhos, May 24.

WATER TEMPERATURES: Maximum, 22.0°C on several days in July and Aug.; minimum, freezing point on several days during periods of cold weather.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS (MG/L AS CACO3)
OCT 11...	0945	.55	644	8.4	12.0	--	7.4	K15	--	210
NOV 20...	1120	115	386	8.3	.0	1.7	11.8	K7	70	120
DEC 13...	1045	78	397	8.1	.5	1.4	--	--	--	120
JAN 14...	1515	4900	198	7.9	6.0	250	9.5	560	6600	58
FEB 13...	1115	369	304	8.0	6.5	4.4	10.6	K2	K18	100
MAR 12...	0915	524	308	8.2	6.5	15	10.6	K19	K12	99
APR 16...	0945	903	175	--	11.5	70	9.0	K100	200	57
MAY 14...	0945	1020	162	7.8	12.0	34	8.8	K55	190	50
JUN 18...	0920	1430	111	7.8	16.5	35	8.2	230	--	34
JUL 17...	0950	496	185	8.0	22.0	11	7.2	50	52	56
AUG 12...	0925	56	519	8.2	19.0	3.6	7.3	K24	65	160
SEP 16...	1050	101	416	8.3	16.5	2.6	9.0	210	K1900	140

K: NON-IDEAL COLONY COUNT.

10312000 CARSON RIVER NEAR FORT CHURCHILL, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT										
11...	60	14	56	1.7	6.0	190	2	159	150	13
NOV										
20...	35	7.9	34	1.4	3.5	140	0	115	70	13
DEC										
13...	35	7.5	38	1.5	3.9	160	0	131	72	12
JAN										
14...	17	3.7	8.8	.5	3.4	57	0	47	34	6.5
FEB										
13...	30	6.7	24	1.0	3.0	98	0	80	53	9.2
MAR										
12...	28	7.0	25	1.1	2.9	110	0	90	55	9.6
APR										
16...	16	4.2	11	.6	2.1	--	--	34	38	3.6
MAY										
14...	14	3.7	10	.6	2.1	63	0	52	22	3.8
JUN										
18...	9.4	2.5	6.6	.5	1.8	51	0	42	11	2.1
JUL										
17...	16	3.9	13	.8	2.8	74	0	56	26	4.8
AUG										
12...	45	11	40	1.4	5.8	160	0	120	110	15
SEP										
16...	39	9.5	38	1.4	6.1	160	0	131	74	15

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
OCT										
11...	.5	28	449	423	.67	.02	.020	.01	.010	.010
NOV										
20...	.4	21	238	254	73.9	.05	.010	.05	.020	.020
DEC										
13...	.5	23	294	272	61.9	.30	.080	.31	.010	.010
JAN										
14...	.2	15	--	119	1570	.19	.140	.32	.130	.080
FEB										
13...	.2	23	202	199	201	.40	.030	.42	.160	.120
MAR										
12...	.3	23	210	206	297	.29	.010	.29	--	.040
APR										
16...	.2	19	118	115	288	.15	.010	.16	.000	.020
MAY										
14...	.1	19	117	104	322	.14	.010	.15	.030	.040
JUN										
18...	.1	16	77	75	297	.05	.020	.06	.030	.010
JUL										
17...	.2	21	125	122	167	.05	.010	.06	.000	.000
AUG										
12...	.6	28	330	328	49.9	.00	.020	.03	.000	.020
SEP										
16...	.5	24	--	285	77.7	.07	.010	.00	.000	.020

BEST DOCUMENT AVAILABLE

10312000 CARSON RIVER NEAR FORT CHURCHILL, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, DISSOLV (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHOPH-OSPHATE, DIS-SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)
OCT										
11...	.47	.45	.52	.47	.070	.060	--	2.4	--	--
NOV										
20...	.49	.18	.57	.25	.260	.230	.220	--	17	--
DEC										
13...	.50	.30	.89	.62	.280	.280	.260	--	4.8	.2
JAN										
14...	1.5	.61	1.9	1.0	.670	.160	.130	--	--	--
FEB										
13...	.31	.35	.90	.89	.190	.150	--	--	7.6	.8
MAR										
12...	--	.36	.78	.69	.230	.130	--	--	8.2	.2
APR										
16...	1.0	.89	1.2	1.1	.410	.070	.080	--	--	2.2
MAY										
14...	.57	.34	.75	.53	.210	.080	--	--	8.9	1.4
JUN										
18...	.97	.50	1.1	.57	.250	.110	.080	--	3.8	--
JUL										
17...	.60	.53	.66	.59	.230	.120	.110	--	9.0	.5
AUG										
12...	.45	.26	.47	.31	.220	.180	.120	--	7.7	.2
SEP										
16...	.83	.80	.91	.82	.350	.280	--	--	6.0	.9

10312000 - CARSON R NR FORT CHURCHILL, NV

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	ARSENIC, TOTAL (UG/L AS AS)	ARSENIC, DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM, TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM, DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)
JAN 14...	1515	20	6	300	200	0	0	10	0	40
APR 16...	0945	--	--	--	--	--	--	--	--	--
MAY 14...	0945	10	6	100	30	1	<1	0	0	2
JUN 18...	0920	--	--	--	--	--	--	--	--	--
JUL 17...	0950	9	7	100	40	0	<1	20	20	1
AUG 12...	0925	--	--	--	--	--	--	--	--	--
SEP 16...	1050	10	9	100	70	0	<1	10	0	0

DATE	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
JAN 14...	0	120	1	23000	160	120	0	1200	110	22
APR 16...	--	--	--	--	--	--	--	--	--	--
MAY 14...	<3	16	6	4800	240	9	0	160	5	3.7
JUN 18...	--	--	--	--	--	--	--	--	--	--
JUL 17...	<3	9	4	1500	70	9	0	90	7	2.3
AUG 12...	--	--	--	--	--	--	--	--	--	--
SEP 16...	<3	4	3	370	30	2	0	60	20	.9

DATE	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
JAN 14...	.1	0	2	1	0	8	0	180	0
APR 16...	--	--	--	--	--	2	--	--	--
MAY 14...	.1	7	3	0	0	0	0	40	<3
JUN 18...	--	--	--	--	--	4	--	--	--
JUL 17...	.1	2	1	0	0	1	0	10	6
AUG 12...	--	--	--	--	--	0	--	--	--
SEP 16...	.1	7	2	0	0	0	0	30	<3

10312000 CARSON RIVER NEAR FORT CHURCHILL, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE	OCT 19,79	NOV 20,79	JAN 14,80	JAN 18,80	MAR 12,80
TIME	0955	1120	1515	1155	0915
TOTAL CELLS/ML	2500	1700	35	870	150
DIVERSITY: DIVISION	1.1	1.0	0.0	0.2	0.8
.CLASS	1.1	1.0	0.0	0.2	0.8
..ORDER	0.0	1.6	0.9	0.4	1.4
...FAMILY	0.0	3.3	2.0	2.0	1.4
....GENUS	0.0	3.6	2.0	2.3	1.4

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...CHARACIACEAE										
....SCHROEDERIA	--	-	--	-	--	-	--	-	--	-
...HYDRODICTYACEAE										
....PEDIASTRUM	--	-	53	3	--	-	--	-	--	-
...MICRACTINIACEAE										
....GOLENKINIA	--	-	--	-	--	-	--	-	--	-
....MICRACTINIUM	--	-	--	-	--	-	--	-	--	-
...OOCYSTACEAE										
....ANKISTRODESMUS	*	0	53	3	--	-	5	1	13	8
....CHLORELLA	110	4	140	8	--	-	--	-	--	-
....KIRCHNERIELLA	--	-	--	-	--	-	--	-	--	-
....SELENASTRUM	--	-	--	-	--	-	--	-	--	-
....TETRAEDRON	--	-	--	-	--	-	--	-	--	-
...SCENEDESMACEAE										
....SCENEDESMUS	66	3	170	10	--	-	30	3	--	-
....TETRASTRUM	--	-	--	-	--	-	--	-	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	88	4	--	-	--	-	--	-	26#	17
....CHLOROGONIUM	--	-	--	-	--	-	--	-	--	-
....PLATYMONAS	*	0	--	-	--	-	--	-	--	-
...PHACOTACEAE										
....PTEROMONAS	--	-	--	-	--	-	--	-	--	-
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCACEAE										
....COSCINODISCUS	--	-	--	-	--	-	--	-	--	-
....CYCLOTELLA	250	10	310#	18	10#	29	5	1	100#	67
....MELOSIRA	*	0	21	1	--	-	10	1	--	-
..PENNALES										
...ACHNANTHACEAE										
....ACHNANTHES	*	0	11	1	--	-	--	-	--	-
....COCCONEIS	*	0	43	2	5	14	10	1	--	-
...CYMBELLACEAE										
....AMPHORA	--	-	--	-	--	-	--	-	--	-
....CYMBELLA	44	2	11	1	--	-	5	1	--	-
....EPITHEMIA	33	1	32	2	--	-	5	1	--	-
...DIATOMACEAE										
....DIATOMA	*	0	85	5	10#	29	96	11	--	-
...EUNOTIACEAE										
....EUNOTIA	--	-	--	-	--	-	--	-	--	-
...FRAGILARIACEAE										
....ASTERIONELLA	--	-	--	-	--	-	--	-	--	-
....FRAGILARIA	1300#	50	170	10	--	-	480#	56	--	-
....HANNAEA	--	-	--	-	--	-	--	-	--	-
....SYNEDRA	*	0	53	3	10#	29	45	5	--	-
...GOMPHONEMATACEAE										
....GOMPHONEIS	--	-	--	-	--	-	--	-	--	-
....GOMPHONEMA	33	1	75	4	--	-	20	2	--	-
...NAVICULACEAE										
....NAVICULA	110	4	210	12	--	-	61	7	--	-
....PLEUROSIGMA	--	-	11	1	--	-	--	-	--	-
...NITZSCHIACEAE										
....NITZSCHIA	77	3	230	14	--	-	86	10	13	8
...SURIRELLACEAE										
....SURIRELLA	--	-	--	-	--	-	5	1	--	-
CRYPTOPHYTA (CRYPTOMONADS)										
.CRYPTOPHYCEAE	*	0	--	-	--	-	--	-	--	-
..CRYPTOMONADALES										
...CRYPTOMONADACEAE										
....CRYPTOMONAS	--	-	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

BEST DOCUMENT AVAILABLE

10312000 CARSON RIVER NEAR FORT CHURCHILL, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980 (CONTINUED)

DATE	OCT 19,79		NOV 20,79		JAN 14,80		JAN 18,80		MAR 12,80	
TIME	0955		1120		1515		1155		0915	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROOCOCCALES										
...CHROOCOCCACEAE										
....ANACYSTIS	--	-	--	-	--	-	--	-	--	-
..HORMOGONALES										
...NOSTOCACEAE										
....ANABAENA	330	13	--	-	--	-	--	-	--	-
....ANABAENOPSIS	--	-	--	-	--	-	--	-	--	-
...OSCILLATORIACEAE										
....OSCILLATORIA	--	-	--	-	--	-	--	-	--	-
....SCHIZOTHRIX	--	-	43	2	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)										
.EUGLENOPHYCEAE										
..EUGLENALES										
...EUGLENACEAE										
....EUGLENA	--	-	--	-	--	-	--	-	--	-
....PHACUS	--	-	--	-	--	-	--	-	--	-
....TRACHELOMONAS	--	-	--	-	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)										
.DINOPHYCEAE										
..PERIDINIALES										
...GLENODINIACEAE										
....GLENODINIUM	--	-	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

10312000 CARSON RIVER NEAR FORT CHURCHILL, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE	APR 16,80	MAY 14,80	MAY 21,80	JUN 3,80
TIME	0945	0945	1540	0930
TOTAL CELLS/ML	8200	490	310	100
DIVERSITY: DIVISION	0.0	0.3	1.5	1.1
.CLASS	0.0	0.3	1.5	1.1
..ORDER	0.4	1.1	1.6	1.1
...FAMILY	2.8	1.5	2.0	1.1
....GENUS	3.1	2.2	2.0	1.1

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...CHARACIACEAE								
....SCHROEDERIA	--	-	--	-	--	-	--	-
...HYDRODICTYACEAE								
....PEDIASTRUM	--	-	--	-	--	-	--	-
...MICRACTINIACEAE								
....GOLENKINIA	--	-	--	-	--	-	--	-
....MICRACTINIUM	--	-	--	-	--	-	--	-
...OOCYSTACEAE								
....ANKISTRODESMUS	--	-	--	-	--	-	13	13
....CHLORELLA	--	-	--	-	--	-	--	-
....KIRCHNERIELLA	--	-	--	-	--	-	--	-
....SELENASTRUM	--	-	--	-	--	-	--	-
....TETRAEDRON	--	-	--	-	--	-	--	-
...SCENEDESMACEAE								
....SCENEDESMUS	--	-	--	-	52#	17	--	-
....TETRASTRUM	--	-	--	-	--	-	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	-	29	6	--	-	--	-
....CHLOROGONIUM	--	-	--	-	--	-	--	-
....PLATYMONAS	--	-	--	-	--	-	--	-
...PHACOTACEAE								
....PTEROMONAS	--	-	--	-	--	-	--	-
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....COSCINODISCUS	--	-	14	3	--	-	--	-
....CYCLOTELLA	690	8	240#	50	13	4	--	-
....MELOSIRA	--	-	72	15	--	-	--	-
..PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	140	2	14	3	--	-	--	-
....COCCONEIS	--	-	--	-	--	-	--	-
...CYMBELLACEAE								
....AMPHORA	69	1	--	-	--	-	--	-
....CYMBELLA	410	5	--	-	--	-	--	-
....EPITHEMIA	69	1	--	-	--	-	--	-
...DIATOMACEAE								
....DIATOMA	--	-	--	-	--	-	--	-
...EUNOTIACEAE								
....EUNOTIA	69	1	--	-	--	-	--	-
...FRAGILARIACEAE								
....ASTERIONELLA	--	-	--	-	--	-	--	-
....FRAGILARIA	1200	14	--	-	--	-	--	-
....HANNAEA	69	1	--	-	--	-	--	-
....SYNEDRA	210	3	--	-	--	-	--	-
...GOMPHONEMATACEAE								
....GOMPHONEIS	140	2	--	-	--	-	--	-
....GOMPHONEMA	760	9	--	-	--	-	--	-
...NAVICULACEAE								
....NAVICULA	2100#	26	72	15	13	4	--	-
....PLEUROSIGMA	--	-	--	-	--	-	--	-
...NITZSCHIACEAE								
....NITZSCHIA	1600#	19	43	9	65#	21	77#	75
...SURIRELLACEAE								
....SURIRELLA	690	8	--	-	13	4	--	-
CRYPTOPHYTA (CRYPTOMONADS)								
.CRYPTOPHYCEAE	--	-	--	-	--	-	--	-
..CRYPTOMONADALES								
...CRYPTOMONADACEAE								
....CRYPTOMONAS	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15#
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2#

BEST DOCUMENT AVAILABLE

10312000 CARSON RIVER NEAR FORT CHURCHILL, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980 (CONTINUED)

DATE	APR 16,80		MAY 14,80		MAY 21,80		JUN 3,80	
TIME	0945		0945		1540		0930	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROOCOCCALES								
...CHROOCOCCACEAE								
....ANACYSTIS	--	-	--	-	--	-	--	-
..HORMOGONALES								
...NOSTOCACEAE								
....ANABAENA	--	-	--	-	--	-	--	-
....ANABAENOPSIS	--	-	--	-	--	-	--	-
...OSCILLATORIACEAE								
....OSCILLATORIA	--	-	--	-	160#	50	--	-
....SCHIZOTHRIX	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....EUGLENA	--	-	--	-	--	-	13	13
....PHACUS	--	-	--	-	--	-	--	-
....TRACHELOMONAS	--	-	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)								
.DINOPHYCEAE								
..PERIDINIALES								
...GLENODINIACEAE								
....GLENODINIUM	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

10312000 CARSON RIVER NEAR FORT CHURCHILL, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE	JUL 3,80	JUL 17,80	AUG 12,80	SEP 16,80
TIME	0900	0950	0925	1050
TOTAL CELLS/ML	740	5100	1500	2600
DIVERSITY: DIVISION	1.4	1.6	0.8	1.3
.CLASS	1.4	1.6	0.8	1.3
..ORDER	1.7	2.1	1.7	2.2
...FAMILY	2.2	2.3	2.3	3.2
....GENUS	2.2	2.5	2.6	3.5

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...CHARACIACEAE								
....SCHROEDERIA	--	-	49	1	--	-	--	-
...HYDRODICTYACEAE								
....PEDIASTRUM	--	-	--	-	--	-	300	12
...MICRACTINIACEAE								
....GOLENKINIA	--	-	--	-	13	1	--	-
....MICRACTINIUM	--	-	--	-	52	4	--	-
...OOCYSTACEAE								
....ANKISTRODESMUS	--	-	150	3	64	4	50	2
....CHLORELLA	--	-	--	-	--	-	--	-
....KIRCHNERIELLA	--	-	250	5	--	-	--	-
....SELENASTRUM	--	-	--	-	--	-	50	2
....TETRAEDRON	--	-	*	0	--	-	17	1
...SCENEDESMACEAE								
....SCENEDESMUS	100	14	200	4	130	9	320	12
....TETRASTRUM	--	-	98	2	--	-	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	-	*	0	90	6	240	9
....CHLOROGONIUM	--	-	--	-	--	-	17	1
....PLATYMONAS	--	-	--	-	--	-	--	-
...PHACOTACEAE								
....PTEROMONAS	--	-	--	-	13	1	17	1
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....COSCINODISCUS	--	-	--	-	--	-	--	-
....CYCLOTELLA	--	-	1300#	25	140	10	440#	17
....MELOSIRA	39	5	--	-	190	13	67	3
..PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	--	-	--	-	--	-	--	-
....COCCONEIS	--	-	--	-	--	-	17	1
...CYMBELLACEAE								
....AMPHORA	--	-	--	-	--	-	--	-
....CYMBELLA	--	-	--	-	--	-	--	-
....EPITHEMIA	--	-	--	-	--	-	17	1
...DIATOMACEAE								
....DIATOMA	26	4	--	-	--	-	--	-
...EUNOTIACEAE								
....EUNOTIA	--	-	--	-	--	-	--	-
...FRAGILARIACEAE								
....ASTERIONELLA	--	-	--	-	26	2	--	-
....FRAGILARIA	270#	37	--	-	--	-	170	6
....HANNAEA	--	-	--	-	--	-	--	-
....SYNEDRA	--	-	--	-	26	2	34	1
...GOMPHONEMATACEAE								
....GOMPHONEIS	--	-	--	-	--	-	--	-
....GOMPHONEMA	--	-	--	-	--	-	--	-
...NAVICULACEAE								
....NAVICULA	13	2	--	-	26	2	320	12
....PLEUROSIGMA	--	-	--	-	--	-	--	-
...NITZSCHIACEAE								
....NITZSCHIA	52	7	490	10	680#	47	370	14
...SURIRELLACEAE								
....SURIRELLA	--	-	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)								
.CRYPTOPHYCEAE	--	-	--	-	--	-	--	-
..CRYPTOMONADALES								
...CRYPTOMONADACEAE								
....CRYPTOMONAS	--	-	*	0	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

10312000 CARSON RIVER NEAR FORT CHURCHILL, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980 (CONTINUED)

DATE	JUL 3,80		JUL 17,80		AUG 12,80		SEP 16,80	
TIME	0900		0950		0925		1050	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROOCOCCALES								
...CHROOCOCCACEAE								
....ANACYSTIS	--	-	120	2	--	-	100	4
..HORMOGONALES								
...NOSTOCACEAE								
....ANABAENA	--	-	2300#	45	--	-	--	-
....ANABAENOPSIS	230#	32	--	-	--	-	--	-
...OSCILLATORIACEAE								
....OSCILLATORIA	--	-	--	-	--	-	--	-
....SCHIZOTHRIX	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....EUGLENA	--	-	49	1	--	-	67	3
....PHACUS	--	-	*	0	--	-	--	-
....TRACHELOMONAS	--	-	*	0	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)								
.DINOPHYCEAE								
..PERIDINIALES								
...GLENODINIACEAE								
....GLENODINIUM	--	-	*	0	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

PERIPHYTON

RETRIEVAL DATE	LENGTH OF EXPOSURE POLYETHYLENE STRIP (DAYS)	BIOMASS (G/M^2)		CHLOROPHYLL A (MG/M^2)	CHLOROPHYLL B (MG/M^2)
		DRY WEIGHT	ASH WEIGHT		
Aug 12	26	20.0	18.0	5.04	1.08

10312000 - CARSON R NR FORT CHURCHILL, NV

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM
OCT								
11...	0945	.55	12	.02	--	--	--	--
NOV								
20...	1120	115	5	1.6	--	--	--	--
DEC								
13...	1045	78	6	1.3	--	--	--	--
JAN								
14...	1515	4900	1160	15300	--	--	--	--
18...	1155	1420	381	1460	22	27	34	43
FEB								
13...	1115	369	19	19	--	--	--	--
20...	1215	2610	990	6980	--	--	--	--
MAR								
12...	0915	524	60	85	--	--	--	--
APR								
16...	0945	903	408	995	--	--	--	--
23...	1300	1130	273	833	--	--	--	--
MAY								
02...	1345	1500	458	1860	--	--	--	--
07...	1000	2380	712	4580	13	18	23	29
14...	0945	1020	261	719	--	--	--	--
21...	1540	1940	558	2920	--	--	--	--
JUN								
03...	0930	1160	270	846	--	--	--	--
18...	0920	1430	353	1360	--	--	--	--
JUL								
03...	0900	1640	506	2240	17	21	28	34
17...	0950	496	74	99	--	--	--	--
AUG								
12...	0925	56	12	1.8	--	--	--	--
SEP								
16...	1050	101	16	4.4	--	--	--	--

DATE	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
OCT							
11...	--	--	--	--	--	--	--
NOV							
20...	--	--	--	--	--	--	--
DEC							
13...	--	--	--	--	--	--	--
JAN							
14...	--	62	--	--	--	--	--
18	52	65	81	97	98	100	--
FEB							
13...	--	--	--	--	--	--	--
20...	--	48	--	--	--	--	--
MAR							
12...	--	--	--	--	--	--	--
APR							
16...	--	60	--	--	--	--	--
23...	--	53	--	--	--	--	--
MAY							
02...	--	--	--	--	--	--	--
07...	36	42	55	72	88	98	100
14...	--	53	--	--	--	--	--
21...	--	40	--	--	--	--	--
JUN							
03...	--	--	--	--	--	--	--
18...	--	35	--	--	--	--	--
JUL							
03...	41	47	59	78	92	99	100
17...	--	--	--	--	--	--	--
AUG							
12...	--	--	--	--	--	--	--
SEP							
16...	--	--	--	--	--	--	--

10312000 CARSON RIVER NEAR FORT CHURCHILL, NV--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	641	360	360	339	284	280	275	122	148	106	315	606
2	637	365	361	297	291	289	271	117	148	98	347	571
3	641	360	357	274	288	---	269	116	148	96	378	563
4	641	364	361	310	---	292	269	114	142	110	378	563
5	641	360	364	328	301	315	304	107	152	116	388	579
6	623	352	364	337	296	309	283	104	159	117	409	597
7	634	351	---	339	296	309	268	108	170	127	388	579
8	637	366	375	339	295	310	275	95	182	130	399	571
9	637	381	371	340	295	326	283	108	170	142	430	555
10	641	385	376	339	301	330	271	104	138	146	462	555
11	---	380	388	331	303	317	255	116	121	153	483	548
12	641	391	376	304	295	311	243	133	106	160	504	476
13	649	390	386	277	299	300	229	150	110	167	514	435
14	665	391	401	197	304	312	232	162	116	171	525	465
15	649	392	420	178	326	319	204	173	124	176	525	455
16	645	392	423	167	311	300	170	175	121	---	561	465
17	641	392	402	---	301	289	162	172	114	186	561	---
18	641	394	400	208	288	295	154	141	113	195	567	465
19	637	392	378	237	246	297	134	127	102	195	577	465
20	661	385	380	252	228	281	127	111	96	197	588	476
21	623	391	378	263	262	281	118	95	93	204	588	476
22	589	391	367	264	274	288	124	91	93	223	588	476
23	445	411	364	264	303	293	140	91	96	227	588	465
24	354	421	350	273	308	289	157	89	104	234	588	500
25	369	400	360	273	325	295	173	116	106	244	598	500
26	389	372	329	279	320	290	182	---	108	246	598	500
27	377	369	362	277	309	297	159	141	106	246	598	519
28	352	348	437	281	301	302	138	---	108	271	567	512
29	341	331	---	281	295	---	126	162	121	---	577	533
30	349	348	415	285	---	290	120	165	113	285	598	512
31	354	---	407	294	---	288	---	165	---	285	609	---
MEAN	558	378	380	281	294	300	204	127	124	181	510	517

WTR YR 1980 MEAN 322 MAX 665 MIN 89

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.0	5.0	.0	3.5	1.0	5.5	3.5	9.0	12.0	16.0	21.0	17.0
2	14.0	4.5	2.0	3.0	.5	6.0	5.0	12.0	12.0	16.0	20.0	20.0
3	15.0	6.0	3.0	2.5	1.5	---	5.0	12.0	10.0	15.0	18.0	17.0
4	15.0	6.0	2.5	2.5	---	5.0	8.0	12.0	13.0	16.0	22.0	17.0
5	15.5	4.5	2.0	1.5	3.0	6.5	8.0	12.0	11.0	15.0	20.0	17.0
6	15.0	4.0	2.0	2.0	5.0	5.0	8.5	11.0	11.0	15.5	18.5	19.0
7	14.5	4.0	---	1.5	4.0	3.5	8.0	10.0	13.0	16.0	18.0	18.0
8	14.0	5.0	2.0	2.5	1.0	3.5	7.0	10.0	15.0	15.0	15.0	17.0
9	13.0	6.0	1.0	4.5	1.0	4.5	11.0	9.0	15.0	17.0	16.0	17.0
10	11.0	4.0	3.0	3.5	1.5	5.0	9.0	9.0	14.0	16.0	17.0	16.5
11	---	3.5	---	1.5	1.0	8.0	8.5	8.0	14.0	17.0	18.0	16.0
12	12.5	2.5	---	5.5	1.5	4.0	9.5	11.0	13.0	17.0	18.0	17.0
13	13.0	2.0	.0	6.0	1.0	5.0	13.0	9.0	14.0	19.0	18.0	16.0
14	12.5	2.5	.0	4.0	4.0	5.0	12.5	10.0	12.0	17.0	16.0	12.0
15	13.5	2.0	.5	4.0	4.0	5.0	11.0	11.0	14.0	16.0	17.0	14.0
16	12.0	3.0	.0	4.5	4.0	3.0	11.0	13.0	14.5	---	17.0	15.0
17	11.0	4.5	---	---	5.0	3.0	11.0	13.0	15.5	17.0	16.0	---
18	10.5	5.0	.0	3.0	5.0	4.0	11.0	13.0	17.0	18.0	17.0	17.0
19	11.0	.5	.0	1.5	5.5	2.0	10.5	12.0	15.0	19.0	16.5	14.0
20	9.0	.0	.5	1.0	3.0	4.0	11.0	14.0	15.0	19.0	17.0	15.0
21	7.5	.0	1.0	.0	3.5	3.0	9.0	14.5	15.0	20.0	18.0	14.0
22	7.5	.0	.5	.0	2.5	5.0	7.0	14.0	14.0	21.0	17.0	14.0
23	8.0	.5	.5	.0	1.0	4.0	7.5	9.0	13.5	21.0	15.0	12.0
24	8.0	3.0	1.0	1.0	3.5	4.0	7.5	8.0	15.0	20.0	16.0	13.0
25	8.0	5.0	1.0	.5	3.5	2.0	11.0	7.0	15.0	20.0	17.0	13.0
26	7.0	5.0	1.0	1.5	4.0	2.5	11.0	---	14.0	21.0	16.0	15.0
27	6.5	.5	.0	1.0	6.0	4.5	11.0	9.5	15.5	21.0	17.0	15.0
28	8.0	.0	.0	.0	5.5	3.5	11.0	---	17.5	22.0	15.0	16.0
29	4.5	.0	---	.0	5.0	---	11.0	12.0	18.0	---	14.5	13.0
30	4.5	.0	.0	.0	---	7.0	11.5	14.0	17.0	22.0	14.0	14.0
31	4.5	---	2.5	.0	---	4.0	---	12.0	---	22.0	17.0	---
MEAN	10.5	3.0	1.0	2.0	3.0	4.5	9.5	11.0	14.0	18.0	17.0	15.5

WTR YR 1980 MEAN 9.5 MAX 22.0 MIN .0

10312100 LAHONTAN RESERVOIR NEAR FALLON, NV

LOCATION.--Lat 39°27'45", long 119°04'00", in SW¼SE¼ sec.33, T.19 N., R.26 E., Churchill County, Hydrologic Unit 16050202, in outlet control house on upstream side of Lahontan Dam on Carson River, 18 mi (29 km) west of Fallon.

DRAINAGE AREA.--1,950 mi^2 (5,050 km^3), (not including inflow from Truckee Canal).

PERIOD OF RECORD.--January 1917 to current year. Monthly contents only for January 1917 to September 1960, published in WSP 1734.

REVISED RECORDS.--WDR NV-79-1: Drainage area.

GAGE.--Float tape with surface contact detector. Prior to 1956, float tape. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to 1966 at datum 3.73 ft (1.137 m) lower (Bureau of Reclamation datum).

REMARKS.--Reservoir is formed by earth and gravel-fill dam, constructed by U.S. Bureau of Reclamation. Storage began sometime between the completion of the dam in June 1915 and the beginning of the period of record, January 1917. Capacity, 295,100 acre-ft (364 hm^3) between elevations, 4,060.0 ft (1,237.49 m), invert of outlet conduit, and 4,162.0 ft (1,268.58 m), spillway crest; includes 91 acre-ft (112,000 m^3) of dead storage below elevation 4,070.0 ft (1,240.54 m). Surface area at spillway elevation, 12,120 acres (49.0 km^2). Water is used for irrigation of 87,500 acres (354 km^2) in Newland Project and for power. Figures given herein represent total contents and are computed from 0800 hour readings, based on capacity table dated 1972. Reservoir stores water from Carson River and from Truckee River via Truckee Canal at Derby Dam. Inflow is regulated by Lake Tahoe, Donner Lake, Prosser Creek, Stampede, Boca, and other Reservoirs, and Derby Dam. Extensive irrigation above reservoir in Carson and Truckee River basins.

COOPERATION.--Records of daily elevations furnished by Truckee-Carson Irrigation District.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed (20-inch flashboard on weir), 328,600 acre-ft (405 hm^3) June 16, 1942, elevation, 4,164.43 ft (1,269.318 m); minimum observed, 91 acre-ft (112,000 m^3) Sept. 7-9, 1929, elevation, 4,070.0 ft (1,240.54 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 278,000 acre-ft (343 hm^3) July 8, 9, elevation, 4,160.50 ft (1,268.120 m); minimum observed, 126,400 acre-ft (156 hm^3) Oct. 22, elevation, 4,139.73 ft (1,261.790 m).

Capacity table (elevation, in feet, contents, in acre-feet)

4,139	122,700	4,150	187,200
4,142	138,400	4,155	225,600
4,145	155,440	4,161	283,500

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	140000	128700	145400	175600	235600	241500	242300	246000	263600	266400	250100	193900
2	139100	128800	146300	177100	235100	241900	242000	246800	262700	268100	248600	192600
3	138300	129000	147200	178600	234700	242400	241800	247300	262300	270000	246700	191100
4	137300	129200	148100	180800	234200	242800	241300	248300	261500	271900	245000	189600
5	136300	129500	149000	182300	233900	243300	240800	251200	261400	273600	243600	188200
6	135100	129700	149900	183700	233400	243600	240500	253800	260800	275300	241500	186800
7	133800	129900	150800	184900	232900	244000	240200	256100	260200	277100	239700	185400
8	132500	130400	151600	186100	232500	244500	240000	260000	259400	278000	237900	184300
9	131000	130400	152500	187300	232000	244800	239800	262100	258500	278000	236100	183000
10	131000	130700	153400	188500	231400	245100	239500	263800	258100	277600	234200	182000
11	131300	130900	154400	189700	230700	245500	239100	265300	257700	277000	232500	181200
12	130500	131000	155300	191000	230100	245500	238700	266400	257500	275800	230700	181000
13	129900	131200	156000	194000	229500	245700	238200	266900	257900	274900	228900	180700
14	129200	131300	156900	197100	228900	245900	237700	267100	258000	273800	226700	180300
15	128400	131600	157700	204400	228300	245900	237200	266800	258000	272800	224600	179900
16	127900	132200	158600	213600	227700	245900	236800	265900	258100	271600	222400	179600
17	127600	133000	159500	223500	227300	245900	236800	265300	258200	270400	220300	179300
18	127200	133800	160400	227800	227100	245800	237000	264800	258400	269800	218800	178700
19	126900	134700	161200	230800	227200	245800	237500	264200	258700	268100	217300	177700
20	126500	135500	162100	233000	229500	246000	238100	264400	259600	266500	214900	176600
21	126400	136300	163000	234100	233300	246300	238800	264800	260900	264800	213000	175800
22	126400	137100	163800	235200	236000	245400	239300	265600	261800	263800	210900	175200
23	126500	137900	164800	235700	237600	244900	241500	266500	262800	262800	208600	174500
24	126600	138800	166000	236100	238900	244700	242100	267800	263800	261300	207000	173800
25	126800	139600	166900	236500	240100	244400	242100	269200	264500	259900	205600	173000
26	127100	140500	168300	236500	240700	244200	242300	269400	264500	258500	204000	172100
27	127400	141300	169300	236500	241400	244000	242400	269100	264600	257200	202300	171400
28	127800	142400	170800	236400	241400	243700	242500	268300	264800	255700	200600	170700
29	128200	143500	172100	236400	241000	243500	243700	267200	265100	254300	198600	170000
30	128400	144500	173000	236400	---	242700	245800	266000	265400	252900	196900	169300
31	128600	---	174100	236000	---	242700	---	246700	---	251500	195200	---
MAX	140000	144500	174100	236500	241400	246300	245800	269400	265400	278000	250100	193900
MIN	126400	128700	145400	175600	227100	241500	236800	246000	257500	251500	195200	169300
†	4140.16	4143.09	4148.05	4156.19	4156.76	4156.95	4157.28	4159.25	4159.32	4157.90	4151.13	4147.29
‡	-12600	+15900	+29600	+61900	+5000	+1700	+3100	+900	+18700	-13900	-56300	-25900

CAL YR 1979 MAX 307409 MIN 126400 -28100
WTR YR 1980 MAX 278000 MIN 126400 +28100

† Elevation, in feet, at end of month.
‡ Change in contents, in acre feet.

BEST DOCUMENT AVAILABLE

10312150 CARSON RIVER BELOW LAHONTAN RESERVOIR, NEAR FALLON, NV

LOCATION.--Lat 39°27'50", long 119°02'45", in E½SE¼ sec.34, T.19 N., R.26 E., Churchill County, Hydrologic Unit 16050203, on left bank 1.1 mi (1.8 km) downstream from Lahontan Dam, and 15 mi (24 km) west of Fallon.

DRAINAGE AREA.--1,801 mi^2 (4,665 km^2)(not counting inflow from Truckee Canal).

PERIOD OF RECORD.--October 1966 to current year.

REVISED RECORDS.--WDR NV-79-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,040 ft (1,231 m), from topographic map.

REMARKS.--Records good except for period of no gage-height record, Nov. 15 to Jan 16, which are fair. Flow regulated by Lahontan Reservoir, capacity 295,100 acre-ft (364 hm^3) and other upstream regulations. One diversion, approximately 2,500 acre-ft per year (3.08 hm^3) between gage and Lahontan Reservoir. Monthly measurements of specific conductance and water temperature are listed in section titled "supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--14 years, 522 ft^3/s (14.78 m^3/s), 378,200 acre-ft/yr (466 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,300 ft^3/s (65.1 m^3/s) July 5, 6, 1967, gage height, 7.71 ft (2.350 m); minimum daily, 1.6 ft^3/s (0.045 m^3/s) Oct. 25 to Nov. 7, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,790 ft^3/s (50.7 m^3/s), gage height, 6.07 ft (1.850 m) May 23; minimum daily discharge, 4.5 ft^3/s (0.127 m^3/s) Jan. 1-15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	640	267	6.2	4.5	684	418	561	894	1660	1000	991	885
2	596	267	6.2	4.5	682	415	623	917	1570	955	991	884
3	548	267	6.2	4.5	678	412	643	967	1560	798	991	884
4	547	270	6.2	4.5	677	412	629	963	1430	726	987	882
5	523	271	6.2	4.5	677	411	665	965	1280	728	955	880
6	509	271	6.4	4.5	673	412	612	960	1280	728	965	880
7	508	273	6.4	4.5	672	409	612	963	1280	750	990	881
8	504	275	6.4	4.5	669	408	616	1050	1280	828	987	877
9	506	278	6.4	4.5	668	365	615	1230	1280	946	986	841
10	507	278	6.4	4.5	667	408	688	1270	1270	1000	985	710
11	506	280	6.6	4.5	667	408	721	1270	1270	1080	981	517
12	506	279	6.6	4.5	663	415	721	1260	1270	1080	981	454
13	504	282	6.6	4.5	662	412	728	1310	1280	1080	978	449
14	504	283	6.6	4.5	661	413	771	1350	1280	1080	975	446
15	451	114	6.6	4.5	655	412	800	1420	1280	1080	973	445
16	411	6.2	6.0	49	658	412	850	1430	1290	1080	972	486
17	409	6.2	6.0	134	628	412	880	1440	1230	1080	969	568
18	388	6.2	6.0	198	538	383	880	1450	1100	1080	966	628
19	343	6.2	6.0	284	654	412	882	1470	1100	1080	967	627
20	302	6.2	6.0	341	655	411	882	1490	1110	1080	965	624
21	268	6.2	5.5	377	657	529	888	1560	1110	1030	963	625
22	269	6.2	5.5	498	653	572	885	1660	1110	1000	961	623
23	270	6.2	5.5	564	656	571	889	1740	1100	1000	969	622
24	268	6.2	5.5	563	655	574	889	1770	1110	1000	991	623
25	267	6.2	5.5	561	653	573	888	1760	1100	1000	991	623
26	267	6.2	5.0	559	653	577	886	1740	1100	1000	989	624
27	267	6.2	5.0	556	654	578	888	1730	1110	996	934	621
28	267	6.2	5.0	556	649	579	892	1730	1110	996	888	620
29	268	6.2	5.0	557	567	582	892	1720	1110	959	888	618
30	267	6.2	5.0	641	---	573	893	1700	1050	996	886	622
31	267	---	5.0	686	---	563	---	1670	---	991	885	---
TOTAL	12657	4048.0	183.5	7191.5	18985	14431	23269	42849	37110	30227	29900	20069
MEAN	408	135	5.92	232	655	466	776	1382	1237	975	965	669
MAX	640	283	6.6	686	684	582	893	1770	1660	1080	991	885
MIN	267	6.2	5.0	4.5	538	365	561	894	1050	726	885	445
AC-FT	25110	8030	364	14260	37660	28620	46150	84990	73610	59960	59310	39810

CAL YR 1979 TOTAL 197691.4 MEAN 542 MAX 1440 MIN 5.0 AC-FT 392100
WTR YR 1980 TOTAL 240920.0 MEAN 658 MAX 1770 MIN 4.5 AC-FT 477900

OUTFALL FROM NEWLANDS PROJECT INTO STILLWATER NATIONAL WILDLIFE REFUGE, NEAR FALLON, NV

The following four canals, which are equipped with water-stage recorders, combined with 10312280 Carson River below Fallon (see next page), measure outfall from Newlands Project into Stillwater Wildlife Management Area, Canvasback Gun Club, and Carson Sink. Records are poor.

10312210 STILLWATER DIVERSION CANAL NEAR FALLON, NV.--Lat 39°28'25", long 118°35'50", in NE¼NE¼ sec.34, T.19 N., R.30 E., Churchill County, Hydrologic Unit 16050203, on right bank 0.2 mi (0.6 km) downstream from a channel to Stillwater Slough and 10 mi (16 km) east of Fallon.

10312260 INDIAN LAKES CANAL NEAR FALLON, NV.--Lat 39°34'30", long 118°41'30", in NW¼NE¼ sec.26, T.20 N., R.29 E., Churchill County, Hydrologic Unit 16050203, on right bank between 2 lakes 8 mi (13 km) northeast of Fallon.

10312265 INDIAN LAKES CANAL BELOW EAST LAKE, NV.--Lat 39°36'16", long 118°34'41", in NE¼ sec.14, T.20 N., R.30 E., Churchill County, Hydrologic Unit 16050203, on left bank 500 ft (152 m) downstream from East Lake and 6.1 mi (9.8 km) north-northwest of Stillwater. Established April 15, 1977.

10312270 PAIUTE DRAIN AT WILDLIFE ENTRANCE NEAR STILLWATER, NV.--Lat 39°36'33", long 118°33'19", in SW¼SW¼ sec.7, T.20 N., R.31 E., Churchill County, Hydrologic Unit 16050203, on left bank 6.1 mi (9.8 km) north-northwest of Stillwater. Established April 15, 1977.

REMARKS.--Records of monthly discharge of these canals, published as a group, are available from October 1966 to current year. Monthly measurements of specific conductance and water temperature for station numbers 10312210, 10312260, 10312265, and 10312270 are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

OUTFALL, IN ACRE-FEET, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

Month	Stillwater Diversion Canal	Indian Lakes Canal near Fallon	Indian Lakes Canal below East Lake	Paiute Drain near Stillwater
October	1,970	1,250	793	666
November	1,280	1,510	1,010	1,140
December	1,000	1,630	1,270	1,540
CAL YR 1979 . . .	30,510	13,040	7,640	12,580
January	1,610	1,210	1,050	1,410
February	8,200	1,690	910	1,220
March	2,410	1,180	804	1,220
April	3,080	1,930	1,070	2,140
May	5,510	1,170	721	1,740
June	8,400	736	598	1,010
July	7,480	880	177	810
August	5,740	951	493	1,090
September	4,720	1,880	670	1,470
WTR YR 1979-80	51,400	16,020	9,560	15,460

10312280 CARSON RIVER BELOW FALLON, NV

LOCATION.--Lat 39°40'10", long 118°39'20", in SE¼SW¼ sec.19, T.21 N., R.30 E., Churchill County, Hydrologic Unit 16050203, on right bank 15 mi (24 km) north-northeast of Fallon.

PERIOD OF RECORD.--October 1966 to June 1967 (monthly discharge only), July 1967 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 3,880 ft (1,183 m), from topographic map.

REMARKS.--Records good. Natural flow affected by irrigation development above station (Newlands Project) and by storage in Lahontan Reservoir, capacity, 295,100 acre-ft (364 hm^3). Records for this station together with the canals on preceding page represent the total outfall from Newlands Project into Stillwater Wildlife Management Area, Canvasback Gun Club, and Carson Sink. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--14 years, 45.0 ft^3/s (1.274 m^3/s), 32,600 acre-ft/yr (40.2 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,030 ft^3/s (29.2 m^3/s) July 9, 1967, gage height, 6.60 ft (2.012 m); no flow for many days in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 646 ft^3/s (18.3 m^3/s) June 5, gage height, 5.99 ft (1.826 m); minimum daily, 0.06 ft^3/s (0.0017 m^3/s) Dec. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	17	1.3	.16	452	428	100	45	535	68	17	32
2	4.4	6.3	1.3	.13	461	398	56	48	559	61	18	46
3	1.6	6.0	1.5	.11	470	407	31	64	572	104	16	28
4	2.4	9.9	1.4	.09	464	405	26	57	612	49	27	18
5	3.7	15	1.3	.09	461	398	45	55	635	41	25	30
6	4.0	21	1.1	.11	457	391	40	51	635	29	15	57
7	5.3	8.7	1.6	.13	451	387	47	64	619	40	14	24
8	7.9	2.2	1.9	.16	464	387	42	124	584	30	16	45
9	3.2	1.3	1.9	.21	469	385	25	162	560	12	17	56
10	8.1	1.0	.83	.29	469	353	14	284	536	10	17	48
11	8.6	.77	.42	.67	465	368	11	355	485	9.9	25	71
12	9.3	.49	.33	.48	460	375	11	414	432	13	24	54
13	14	3.3	.25	.60	457	372	18	454	421	12	13	19
14	8.1	1.3	.21	.83	452	372	31	471	397	12	25	13
15	7.2	1.2	.21	.67	452	349	23	474	372	16	29	17
16	8.5	1.1	.18	.75	451	278	22	489	372	22	34	12
17	14	3.5	.18	1.3	449	273	32	516	386	12	35	16
18	14	4.1	.16	22	448	273	22	476	383	7.8	46	6.4
19	9.4	1.4	.18	82	394	272	21	486	319	7.5	22	15
20	6.3	.93	.18	195	440	248	24	495	261	7.7	35	46
21	7.4	.73	.21	234	453	119	18	398	220	7.9	54	62
22	1.0	.56	.25	275	446	58	10	308	200	8.6	43	53
23	9.1	.62	.21	299	441	55	66	333	171	7.1	23	53
24	11	.70	.21	356	441	49	121	345	172	8.4	17	38
25	2.8	.58	.25	398	427	46	132	402	186	20	8.6	29
26	2.0	.47	.16	386	422	34	137	410	152	10	13	37
27	4.3	.36	.09	403	425	71	119	440	84	12	19	16
28	5.5	.38	.06	408	427	32	127	481	51	13	16	14
29	15	.47	.09	417	428	26	85	502	63	11	7.6	17
30	9.3	.70	.09	414	---	31	42	512	62	6.1	6.1	32
31	13	---	.11	427	---	77	---	513	---	9.0	10	---
TOTAL	241.4	112.06	18.16	4322.78	12996	7717	1498	10228	11036	677.0	687.3	1004.4
MEAN	7.79	3.74	.59	139	448	249	49.9	330	368	21.8	22.2	33.5
MAX	21	21	1.9	427	470	428	137	516	635	104	54	71
MIN	1.0	.36	.06	.09	394	26	10	45	51	6.1	6.1	6.4
AC-FT	479	222	36	8570	25780	15310	2970	20290	21890	1340	1360	1990

CAL YR 1979 TOTAL 11991.02 MEAN 32.9 MAX 339 MIN .00 AC-FT 23780
WTR YR 1980 TOTAL 50538.10 MEAN 138 MAX 635 MIN .06 AC-FT 100200

10315500 MARYS RIVER ABOVE HOT SPRINGS CREEK, NEAR DEETH, NV

LOCATION.--Lat 41°15'10", long 115°15'20", in NE¼SE¼ sec.24, T.39 N., R.59 E., Elko County, Hydrologic Unit 16040101, on right bank 1 mi (2 km) upstream from Hot Springs Creek, 7 mi (11 km) north of Cross Ranch, and 13 mi (21 km) north of Deeth.

DRAINAGE AREA.--415 mi^2 (1,075 km^2).

PERIOD OF RECORD.--October 1943 to current year. Prior to October 1950, published as "below Hot Springs Creek, near Deeth."

GAGE.--Water-stage recorder. Altitude of gage is 5,500 ft (1,676 m) from river-profile map. Prior to Nov. 3, 1950, at site 1.2 mi (1.9 km) downstream at different datum. Nov. 3, 1950, to Sept. 30, 1967, water-stage recorder at datum 1.00 ft (0.305 m) higher.

REMARKS.--Records fair except those for winter months, and periods of no gage-height record, July 11 to Sept. 30, which are poor. Several diversions for irrigation of 7,150 acres (28.9 km^2), Humboldt Decree, above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--37 years, 62.9 ft^3/s (1.781 m^3/s), 45,570 acre-ft/yr (56.2 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,210 ft^3/s (119 m^3/s) Feb. 12, 1962, gage height, 7.63 ft (2.326 m), from rating curve extended above 1,000 ft^3/s (28.3 m^3/s) on basis of slope-area measurement of peak flow; no flow for part of each day Aug. 27-30, Sept. 2-5, 1967.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 200 ft^3/s (5.66 m^3/s) and maximum (*)

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 16	0100	422	12.0	4.66	1.420
Feb. 20	0500	243	6.88	3.75	1.143
May 11	1600	*501	14.2	4.99	1.521
May 25	1700	457	12.9	4.83	1.472

Minimum daily discharge, 0.80 ft^3/s (0.023 m^3/s) Oct. 6-9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	9.4	8.2	10	29	91	59	430	210	86	11	2.6
2	2.0	10	8.7	11	29	83	62	426	223	82	12	2.4
3	2.0	10	9.6	12	29	80	62	426	221	82	10	2.2
4	1.6	11	11	14	32	79	65	436	242	81	9.6	2.2
5	1.0	10	13	12	35	78	66	459	286	78	8.7	2.1
6	.80	10	15	12	33	77	70	474	328	73	7.9	2.2
7	.80	11	14	14	35	73	74	462	318	68	7.2	2.1
8	.80	9.7	14	12	36	69	75	472	272	62	6.8	2.4
9	.80	9.4	14	13	38	66	74	489	249	57	6.5	2.7
10	1.0	9.4	13	15	36	65	74	491	232	51	6.1	3.3
11	1.1	9.4	12	20	34	62	81	491	224	44	5.8	4.4
12	1.1	9.0	12	96	33	62	86	484	232	37	5.2	5.5
13	1.1	9.0	12	209	32	64	90	447	244	32	4.8	7.2
14	1.3	9.4	12	315	34	63	103	397	252	27	4.8	7.2
15	1.6	9.7	12	287	45	65	130	358	246	24	4.3	6.7
16	1.1	10	14	287	73	65	157	336	231	25	4.0	6.2
17	1.1	12	15	142	96	62	181	308	207	23	3.9	6.2
18	1.6	12	16	56	107	59	204	282	185	22	3.8	5.6
19	4.7	12	15	49	179	62	232	264	174	20	4.7	5.1
20	6.6	10	13	47	217	62	263	244	173	18	5.5	4.6
21	5.2	9.4	13	45	151	63	291	215	173	16	5.1	4.3
22	4.7	9.4	12	40	119	64	340	207	174	17	4.8	4.3
23	6.7	10	12	37	104	65	410	247	169	18	4.4	4.3
24	9.0	11	12	35	93	65	443	380	157	17	4.0	4.3
25	9.4	12	12	33	85	64	462	447	144	16	3.7	4.5
26	10	12	12	31	81	62	455	399	128	14	3.3	4.5
27	10	9.6	12	30	77	61	417	316	113	13	3.2	4.5
28	11	8.4	11	29	81	61	388	256	103	12	3.1	4.5
29	10	8.0	10	29	92	60	395	221	96	11	2.8	4.2
30	9.0	8.0	10	29	---	59	408	213	90	11	2.9	4.2
31	9.0	---	10	29	---	61	---	215	---	11	2.9	---
TOTAL	128.10	300.2	379.5	2000	2065	2072	6217	11292	6096	1148	172.8	126.5
MEAN	4.13	10.0	12.2	64.5	71.2	66.8	207	364	203	37.0	5.57	4.22
MAX	11	12	16	315	217	91	462	491	328	86	12	7.2
MIN	.80	8.0	8.2	10	29	59	59	207	90	11	2.8	2.1
AC-FT	254	595	753	3970	4100	4110	12330	22400	12090	2280	343	251

CAL YR 1979 TOTAL 24521.70 MEAN 67.2 MAX 507 MIN .80 AC-FT 48640
WTR YR 1980 TOTAL 31997.10 MEAN 87.4 MAX 491 MIN .80 AC-FT 63470

10316500 LAMOILLE CREEK NEAR LAMOILLE, NV

LOCATION.--Lat 40°41'30", long 115°28'30", in NE¼ sec.6, T.32 N., R.58 E., Elko County, Hydrologic Unit 16040101, in Humboldt National Forest, on left bank 600 ft (180 m) upstream from Lamoille Creek bridge, at mouth of canyon, upstream from McDermitt ditch, and 3 mi (5 km) south of Lamoille.

DRAINAGE AREA.--25 mi^2 (65 km^2), approximately.

PERIOD OF RECORD.--May 1915 to June 1923, October 1943 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Concrete control since Oct. 30, 1950. Altitude of gage is 6,240 ft (1,902 m), from topographic map. Prior to Oct. 1, 1943, nonrecording gages at various sites nearby at different datums. Oct. 1 to Jan. 16, 1975, water-stage recorder at site 600 ft (183 m) downstream at datum 4.28 ft (1.305 m) lower.

REMARKS.--Records good except those for winter months, which are fair. Records are now obtained upstream from McDermitt ditch and therefore include that flow, which was previously combined with these figures to give total flow. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--44 years (1915-22, 1943-80) 44.1 ft^3/s (1.249 m^3/s), 31,950 acre-ft/yr (39.4 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 794 ft^3/s (22.5 m^3/s) June 4, 1957, caused by failure of diversion dam 200 ft (60 m) upstream, but may have been exceeded in June 1917, when gage washed out; minimum, 0.10 ft^3/s (0.003 m^3/s) Feb. 24, 1969.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 310 ft^3/s (8.78 m^3/s) and maximum (*)

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 6	1800	300	8.50	4.48	1.366
May 22	2000	322	9.12	4.62	1.408
June 20	2300	*477	13.5	5.27	1.606

Minimum daily discharge, 3.8 ft^3/s (0.11 m^3/s) Oct. 6, 16, 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	7.7	6.8	5.6	8.8	11	10	122	165	334	64	12
2	4.6	7.0	7.0	5.5	8.6	11	9.8	133	200	311	59	12
3	4.5	6.8	7.0	5.5	8.6	12	9.9	163	183	336	54	11
4	4.4	7.9	7.0	5.5	8.6	11	9.9	195	175	298	48	11
5	4.2	8.0	7.0	5.5	8.6	11	9.9	225	165	259	42	11
6	3.8	7.7	6.8	5.5	8.9	12	9.9	266	159	235	38	12
7	4.0	7.7	6.8	5.5	8.1	11	9.4	248	163	211	36	13
8	4.0	7.8	6.6	5.5	8.8	11	9.4	216	187	208	33	16
9	3.9	7.7	6.6	5.5	9.0	11	10	199	237	210	33	18
10	3.9	7.0	6.6	5.0	9.2	11	11	169	306	195	29	20
11	3.9	6.8	6.2	13	9.1	11	11	149	323	178	27	28
12	3.9	6.8	6.0	13	8.8	10	11	133	327	170	26	21
13	3.9	6.8	5.8	14	8.8	10	12	122	320	155	25	20
14	3.9	6.8	5.7	17	8.8	10	14	120	302	148	23	18
15	4.2	6.8	5.6	15	8.8	10	16	117	276	145	22	16
16	3.8	6.8	5.6	15	8.8	9.9	19	114	291	144	22	14
17	3.8	6.8	5.6	14	9.1	9.8	24	109	319	141	20	14
18	3.9	7.0	5.6	13	11	9.7	34	111	356	133	21	14
19	26	6.5	5.6	12	10	9.6	47	126	386	123	23	13
20	15	6.4	5.6	11	10	9.5	70	158	395	117	20	13
21	10	6.3	5.6	11	10	9.6	80	228	384	119	18	13
22	8.7	6.5	5.6	10	10	9.6	80	298	357	118	17	12
23	8.3	6.6	5.7	10	10	9.4	79	307	340	123	16	12
24	8.1	6.8	5.9	9.9	10	9.1	79	244	325	111	15	12
25	8.2	7.0	6.0	9.6	10	9.2	75	203	318	91	15	12
26	9.9	6.6	5.9	9.4	10	9.4	80	180	315	81	15	11
27	9.0	6.4	5.8	9.4	10	9.4	98	163	289	78	14	11
28	8.6	6.4	5.7	9.5	11	9.4	111	154	266	76	14	11
29	8.2	6.4	5.6	9.4	11	9.4	118	153	291	82	13	10
30	7.7	6.6	5.5	9.3	---	9.4	123	154	308	80	13	10
31	7.6	---	5.5	9.1	---	9.9	---	158	---	71	13	---
TOTAL	208.4	208.4	188.3	298.2	272.4	315.3	1280.2	5437	8428	5081	828	421
MEAN	6.72	6.95	6.07	9.62	9.39	10.2	42.7	175	281	164	26.7	14.0
MAX	26	8.0	7.0	17	11	12	123	307	395	336	64	28
MIN	3.8	6.3	5.5	5.0	8.1	9.1	9.4	109	159	71	13	10
AC-FT	413	413	373	591	540	625	2540	10780	16720	10080	1640	835

CAL YR 1979 TOTAL 18654.8 MEAN 51.1 MAX 458 MIN 3.8 AC-FT 37000
WTR YR 1980 TOTAL 22966.2 MEAN 62.7 MAX 395 MIN 3.8 AC-FT 45550

10317400 NORTH FORK HUMBOLDT RIVER NEAR NORTH FORK, NV

LOCATION.--Lat 41°34'30", long 115°54'40", in NW¼SE¼ sec.32, T.43 N., R.54 E., Elko County, Hydrologic Unit 16040102, on right bank above all diversions, 0.7 mi (1.1 km) downstream from Fry Canyon, 1 mi (2 km) upstream from Doheny Ranch, and 9 mi (14 km) northwest of North Fork.

DRAINAGE AREA.--11 mi^2 (28 km^2), approximately.

PERIOD OF RECORD.--Occasional low-flow measurements, water year 1965, August 1965 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,700 ft (2,042 m), from topographic map.

REMARKS.--Records good except those for period of no gage height record, June 1 to Aug. 13, which are fair. No diversion above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--15 years, 10.9 ft^3/s (0.309 m^3/s), 7,900 acre-ft/yr (9.74 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 170 ft^3/s (4.81 m^3/s) June 7, 1975, gage height, 4.10 ft (1.250 m); maximum gage height, 4.43 ft (1.350 m) Jan. 22, 1970; minimum discharge, no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 65 ft^3/s (1.84 m^3/s) and maximum (*)

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Apr. 20	1800	*99	2.80	3.50	1.067
Apr. 28	1800	78	2.21	3.23	0.985
May 5	2100	75	2.12	3.17	0.966

Minimum daily discharge 0.20 ft^3/s (0.006 m^3/s) Oct. 3, 7, 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.25	1.3	2.5	1.2	1.6	6.0	3.1	57	48	13	3.1	3.8
2	.23	1.2	2.8	1.0	1.4	6.0	3.3	58	52	12	2.9	3.7
3	.20	1.4	3.1	1.0	1.4	5.5	3.6	61	55	12	2.8	3.5
4	.24	1.9	2.8	1.0	1.4	5.3	4.3	61	58	11	2.8	3.0
5	.26	2.2	2.8	1.0	1.2	4.9	5.8	62	52	11	2.7	2.6
6	.25	2.7	2.8	1.0	1.2	4.6	5.0	63	49	10	2.7	2.3
7	.20	2.6	2.8	.93	1.2	4.4	5.5	57	44	9.4	2.6	2.5
8	.20	2.4	3.1	1.0	1.2	4.3	5.6	53	41	9.0	2.4	2.2
9	.25	2.4	3.8	1.1	1.2	4.1	6.9	50	39	8.6	2.2	2.0
10	.25	2.3	3.9	.81	1.5	4.3	7.5	45	39	8.3	2.1	3.0
11	.25	2.1	2.7	1.1	1.4	4.1	7.9	41	39	7.8	2.0	3.7
12	.25	2.0	2.7	2.3	1.3	4.6	11	40	37	7.4	1.8	2.4
13	.30	2.0	2.8	12	1.5	4.8	19	38	35	6.8	1.4	2.2
14	.35	2.0	3.0	24	1.7	4.3	26	40	31	6.8	1.7	1.6
15	.69	2.0	2.8	15	2.0	3.6	29	47	29	6.7	1.8	1.3
16	.54	2.0	2.7	9.8	2.1	3.3	36	46	26	6.5	1.8	1.1
17	.45	1.8	2.4	7.8	2.7	3.3	45	44	24	6.3	1.8	.94
18	.54	1.7	2.3	6.0	6.2	3.9	55	44	24	6.0	1.9	.92
19	1.1	1.7	2.1	4.4	6.6	3.6	64	45	24	5.8	2.1	1.7
20	.59	1.7	1.9	3.8	5.7	3.6	75	47	24	5.6	1.7	1.6
21	.50	1.7	1.8	4.3	5.1	3.8	74	52	23	5.3	1.5	1.5
22	.69	1.9	1.7	3.0	4.3	3.6	73	56	22	5.0	1.4	1.8
23	1.9	2.1	1.5	3.1	4.1	3.3	73	52	20	4.7	1.4	1.5
24	3.3	2.0	1.8	3.6	3.4	3.0	69	45	19	4.3	1.1	1.2
25	4.4	1.8	1.5	3.0	3.6	2.7	59	39	18	4.1	1.2	.99
26	4.1	1.7	1.5	2.8	4.1	2.6	56	38	17	3.8	2.1	.83
27	2.3	1.6	1.4	2.6	4.9	2.8	61	39	16	3.6	3.9	.71
28	2.1	1.5	1.3	2.0	6.0	2.4	67	39	15	3.4	4.0	.65
29	2.0	1.9	1.3	1.9	6.0	2.7	63	39	14	3.3	3.7	.58
30	1.4	2.2	1.3	1.8	---	2.4	58	41	14	3.2	3.6	.61
31	1.7	---	1.3	1.8	---	3.5	---	44	---	3.1	3.9	---
TOTAL	31.78	57.8	72.2	126.14	86.0	121.3	1071.5	1483	948	213.8	72.1	56.43
MEAN	1.03	1.93	2.33	4.07	2.97	3.91	35.7	47.8	31.6	6.90	2.33	1.88
MAX	4.4	2.7	3.9	24	6.6	6.0	75	63	58	13	4.0	3.8
MIN	.20	1.2	1.3	.81	1.2	2.4	3.1	38	14	3.1	1.1	.58
AC-FT	63	115	143	250	171	241	2130	2940	1880	424	143	112

version

CAL YR 1979 TOTAL 3987.11 MEAN 10.9 MAX 113 MIN .01 AC-FT 7910
WTR YR 1980 TOTAL 4340.05 MEAN 11.9 MAX 75 MIN .20 AC-FT 8610

10317420 MAHALA CREEK NEAR TUSCARORA, NV

LOCATION.--Lat 41°20'16", long 115°54'32", in NE¼SE¼ sec.20, T.40 N., R.54 E., Elko County, Hydrologic Unit 16040102, on right bank 37 mi (60 km) north of Elko.

DRAINAGE AREA.--4.48 mi^2 (11.6 km^2).

PERIOD OF RECORD.--October 1979 to September 1980.

GAGE.--Water-stage recorder. Altitude of gage is 6,480 ft (1,975 m), from topographic map.

REMARKS.--Records poor. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 38 ft^3/s (1.08 m^3/s) Apr. 21, gage height 1.76 ft (0.536 m); no flow many months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.93	1.1	12	4.3	1.3	.34	.00
2	.00	.00	.00	.00	.00	1.1	1.1	11	5.4	1.1	.30	.00
3	.00	.00	.00	.00	.00	1.1	1.1	11	6.1	.93	.26	.00
4	.00	.00	.00	.00	.00	1.1	1.2	11	7.2	.93	.23	.00
5	.00	.00	.00	.00	.00	1.1	1.3	11	8.0	.87	.21	.00
6	.00	.00	.00	.00	.00	.93	1.2	9.9	7.9	.87	.18	.00
7	.00	.00	.00	.00	.00	.81	1.1	8.9	7.4	.81	.15	.00
8	.00	.00	.00	.00	.00	.87	1.3	8.5	7.3	.81	.14	.00
9	.00	.00	.00	.00	.00	.93	1.6	7.1	7.3	.76	.12	.00
10	.00	.00	.00	.00	.00	.99	1.8	4.9	6.8	.83	.10	.00
11	.00	.00	.00	.00	.00	.87	2.2	4.7	6.3	.78	.08	.00
12	.00	.00	.00	.00	.00	.81	2.6	4.5	5.7	.77	.06	.00
13	.00	.00	.00	.00	.00	1.1	3.4	4.2	5.1	.76	.04	.00
14	.00	.00	.00	.00	.00	1.1	3.8	4.2	4.8	.75	.03	.00
15	.00	.00	.00	.00	.00	.99	4.2	4.7	4.5	.71	.02	.00
16	.00	.00	.00	.00	.00	.69	5.1	4.1	4.1	.72	.01	.00
17	.00	.00	.00	.00	.00	.93	7.5	4.0	3.4	.72	.00	.00
18	.00	.00	.00	.00	.00	1.1	8.6	4.2	3.2	.74	.00	.00
19	.00	.00	.00	.00	.00	.93	11	4.2	2.9	.75	.00	.00
20	.00	.00	.00	.00	.05	.93	14	4.2	2.6	.74	.00	.00
21	.00	.00	.00	.00	.16	.87	16	4.2	2.5	.76	.00	.00
22	.00	.00	.00	.00	.24	.99	8.8	4.4	2.3	.74	.00	.00
23	.00	.00	.00	.00	.33	.99	6.1	4.4	2.2	.71	.00	.00
24	.00	.00	.00	.00	.33	.93	4.6	4.1	2.0	.67	.00	.00
25	.00	.00	.00	.00	.38	.87	4.0	4.1	1.8	.63	.00	.00
26	.00	.00	.00	.00	.49	.93	3.4	3.7	1.6	.59	.00	.00
27	.00	.00	.00	.00	.76	1.1	5.8	3.6	1.4	.55	.00	.00
28	.00	.00	.00	.00	.93	.99	11	3.5	1.4	.51	.00	.00
29	.00	.00	.00	.00	.93	1.1	13	3.6	1.3	.47	.00	.00
30	.00	.00	.00	.00	---	.62	11	3.8	1.2	.43	.00	.00
31	.00	---	.00	.00	---	.99	---	4.0	---	.38	.00	---
TOTAL	.00	.00	.00	.00	4.60	29.69	158.9	181.7	128.0	23.09	2.27	.00
MEAN	.000	.000	.000	.000	.16	.96	5.30	5.86	4.27	.74	.073	.000
MAX	.00	.00	.00	.00	.93	1.1	16	12	8.0	1.3	.34	.00
MIN	.00	.00	.00	.00	.00	.62	1.1	3.5	1.2	.38	.00	.00
AC-FT	.00	.00	.00	.00	9.1	59	315	360	254	46	4.5	.00

WTR YR 1980 TOTAL 528.25 MEAN 1.44 MAX 16 MIN .00 AC-FT 1050

10317430 MAHALA CREEK AT STATE HIGHWAY 225 NEAR TUSCARORA, NV

LOCATION.--Lat 41°17'51", long 115°47'13", in SW¼ sec.4, T.39 N., R.55 E., Elko County, Hydrologic Unit 16040102, on right bank 22 mi (35 km) east of Tuscarora, and 40 mi (64 km) north of Elko.

DRAINAGE AREA.--22.7 mi^2 (58.8 km^2).

PERIOD OF RECORD.--October 1979 to September 1980.

GAGE.--Water-stage recorder. Altitude of gage is 5,840 ft (1,780 m), from topographic map.

REMARKS.--Records poor, no gage-height record Oct. 1 to May 31. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 28 ft^3/s (0.79 m^3/s) Apr. 22; no flow Oct. 1 to Feb. 18, June 27 to Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	3.0	.90	22	11	.00	.00	.00
2	.00	.00	.00	.00	.00	3.0	.95	21	20	.00	.00	.00
3	.00	.00	.00	.00	.00	3.0	1.0	21	13	.00	.00	.00
4	.00	.00	.00	.00	.00	3.0	1.0	21	20	.00	.00	.00
5	.00	.00	.00	.00	.00	3.0	1.0	21	15	.00	.00	.00
6	.00	.00	.00	.00	.00	3.0	1.1	21	13	.00	.00	.00
7	.00	.00	.00	.00	.00	3.0	1.2	21	13	.00	.00	.00
8	.00	.00	.00	.00	.00	3.0	1.3	20	12	.00	.00	.00
9	.00	.00	.00	.00	.00	3.0	1.1	19	11	.00	.00	.00
10	.00	.00	.00	.00	.00	3.0	1.0	18	9.8	.00	.00	.00
11	.00	.00	.00	.00	.00	3.0	1.2	16	9.2	.00	.00	.00
12	.00	.00	.00	.00	.00	3.0	1.4	14	7.9	.00	.00	.00
13	.00	.00	.00	.00	.00	3.0	1.6	13	7.9	.00	.00	.00
14	.00	.00	.00	.00	.00	3.0	2.5	13	7.6	.00	.00	.00
15	.00	.00	.00	.00	.00	3.0	3.5	12	7.6	.00	.00	.00
16	.00	.00	.00	.00	.00	3.0	4.5	12	6.4	.00	.00	.00
17	.00	.00	.00	.00	.00	3.0	6.0	12	5.3	.00	.00	.00
18	.00	.00	.00	.00	.00	3.0	8.0	12	4.8	.00	.00	.00
19	.00	.00	.00	.00	.10	3.0	11	12	4.6	.00	.00	.00
20	.00	.00	.00	.00	.20	3.0	14	12	3.8	.00	.00	.00
21	.00	.00	.00	.00	.30	3.0	20	12	3.2	.00	.00	.00
22	.00	.00	.00	.00	.50	3.0	28	12	2.5	.00	.00	.00
23	.00	.00	.00	.00	.80	3.0	18	12	2.2	.00	.00	.00
24	.00	.00	.00	.00	1.3	3.0	12	12	1.8	.00	.00	.00
25	.00	.00	.00	.00	2.0	3.0	10	11	1.4	.00	.00	.00
26	.00	.00	.00	.00	2.5	3.0	8.5	10	.74	.00	.00	.00
27	.00	.00	.00	.00	3.0	3.0	7.5	9.5	.00	.00	.00	.00
28	.00	.00	.00	.00	3.0	2.0	15	9.5	.00	.00	.00	.00
29	.00	.00	.00	.00	3.0	1.0	25	9.5	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.70	23	9.8	.00	.00	.00	.00
31	.00	---	.00	.00	---	.70	---	10	---	.00	.00	---
TOTAL	.00	.00	.00	.00	16.70	85.40	231.25	450.3	214.74	.00	.00	.00
MEAN	.000	.000	.000	.000	.58	2.75	7.71	14.5	7.16	.000	.000	.000
MAX	.00	.00	.00	.00	3.0	3.0	28	22	20	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.70	.90	9.5	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	33	169	459	893	426	.00	.00	.00

WTR YR 1980 TOTAL 998.39 MEAN 2.73 MAX 28 MIN .00 AC-FT 1980

BEST DOCUMENT AVAILABLE

10317450 GANCE CREEK NEAR TUSCARORA, NV

LOCATION.--Lat 41°17'45", long 115°57'16", in SW¼NW¼ sec.1, T.39 N., R.53 E., Elko County, Hydrologic Unit 16040102, on left bank 13 mi (21 km) east of Tuscarora, and 37 mi (60 km) north of Elko.

DRAINAGE AREA.--6.45 mi^2 (16.7 km^2).

PERIOD OF RECORD.--October 1979 to September 1980.

GAGE.--Water-stage recorder. Altitude of gage is 6,560 ft (1,999 m) from topographic map.

REMARKS.--Records good except for period of no gage-height record, Jan. 18 to Apr. 22 which are poor. Monthly measurements of specific conductance and water temperature are listed in section titled "supplemental Water-Quality Data for Gaging Stations."

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge about 60 ft^3/s (1.70 m^3/s) Apr. 22; minimum daily, 1.6 ft^3/s (0.045 m^3/s) Nov. 20, 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	1.7	1.8	1.8	1.8	8.0	2.4	27	20	5.2	2.3	1.8
2	1.8	1.8	1.8	1.9	1.8	8.0	2.5	25	27	5.8	2.3	1.8
3	1.8	1.8	1.8	1.9	1.8	8.0	3.0	26	28	6.4	2.1	1.8
4	1.8	1.9	1.8	1.9	1.8	8.5	3.5	26	29	5.9	2.0	1.8
5	1.7	1.8	1.9	1.9	1.8	8.0	5.5	26	27	5.4	2.0	1.8
6	1.7	1.8	1.8	1.9	1.8	7.6	5.0	27	25	5.0	2.1	1.7
7	1.7	1.8	1.8	1.9	1.8	7.4	4.5	24	23	4.7	1.9	1.8
8	1.7	1.8	1.8	2.0	1.8	7.2	4.0	23	21	4.4	1.9	1.9
9	1.8	1.8	1.8	1.9	1.8	7.0	3.2	21	20	4.0	1.9	1.9
10	1.7	1.8	1.8	2.1	1.8	7.0	3.5	19	19	3.7	1.7	2.2
11	1.7	1.7	1.7	1.9	1.8	7.5	4.0	18	17	3.6	1.7	2.3
12	1.7	1.7	1.8	3.0	1.8	6.8	4.5	17	16	3.4	1.7	2.1
13	1.7	1.7	1.7	5.3	1.8	6.4	5.0	16	14	3.4	1.8	2.1
14	1.7	1.8	1.7	5.9	1.8	6.0	5.5	16	12	3.3	1.7	2.1
15	1.8	1.7	1.8	52	1.8	5.8	6.0	17	12	3.3	1.8	1.9
16	1.8	1.7	1.8	3.0	1.8	5.6	7.0	17	11	3.1	1.8	1.9
17	1.8	1.8	1.8	2.7	1.8	5.5	8.0	16	10	3.0	1.8	1.9
18	1.8	1.8	1.8	2.4	1.8	5.0	11	16	9.1	2.9	1.9	2.0
19	3.0	1.7	1.8	2.2	1.8	4.5	16	16	8.3	2.8	2.2	1.8
20	7.7	1.6	1.8	2.1	1.8	4.0	23	17	7.4	2.8	2.0	1.8
21	2.1	1.6	1.8	2.0	2.0	3.8	32	18	6.4	2.7	1.9	2.2
22	1.9	1.7	1.8	1.9	3.5	3.5	60	19	5.7	2.6	1.8	2.1
23	1.9	1.8	1.8	1.8	5.0	3.2	45	19	5.7	2.4	1.9	2.0
24	1.9	1.9	1.8	1.8	7.0	3.1	38	18	5.6	2.4	1.8	2.0
25	1.9	1.9	1.8	1.8	8.0	3.0	34	16	5.5	2.4	1.8	2.0
26	1.9	1.8	1.8	1.8	8.0	2.8	32	15	5.1	2.3	1.8	2.0
27	1.9	1.8	1.8	1.8	8.0	2.7	34	15	4.7	2.3	1.8	2.1
28	1.9	1.8	1.8	1.8	8.0	2.9	37	15	4.3	2.2	1.8	1.8
29	1.8	1.8	1.8	1.6	8.0	2.6	33	15	4.0	2.2	1.8	1.9
30	1.7	1.8	1.8	1.5	---	2.5	30	16	4.5	2.2	1.8	1.9
31	1.7	---	1.8	1.8	---	2.3	---	18	---	2.2	1.8	---
TOTAL	62.8	53.1	55.6	119.3	93.5	166.2	502.1	594	407.3	108.0	58.6	58.4
MEAN	2.03	1.77	1.79	3.85	3.22	5.36	16.7	19.2	13.6	3.48	1.89	1.95
MAX	7.7	1.9	1.9	52	8.0	8.5	60	27	29	6.4	2.3	2.3
MIN	1.7	1.6	1.7	1.5	1.8	2.3	2.4	15	4.0	2.2	1.7	1.7
AC-FT	125	105	110	237	185	330	996	1180	808	214	116	116

WTR YR 1980 TOTAL 2278.9 MEAN 6.23 MAX 60 MIN 1.5 AC-FT 4520

10317460 GANCE CREEK AT STATE HIGHWAY 225 NEAR TUSCARORA, NV

LOCATION.--Lat 41°15'08", long 115°47'44", in SE¼SE¼ sec.20, T.39 N., R.55 E., Elko County, Hydrologic Unit 16040102, on right bank 23 mi (37 km) east of Tuscarora, and 35 mi (56 km) north of Elko.

DRAINAGE AREA.--20.2 mi^2 (52.3 km^2).

PERIOD OF RECORD.--October 1979 to September 1980.

GAGE.--Water-stage recorder. Altitude of gage is 5,860 ft (1,783 m) from topographic map.

REMARKS.--Records good. Monthly measurements of specific conductance and water temperature are listed in section titled "supplemental Water-Quality Data for Gaging Stations."

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 62 ft^3/s (1.76 m^3/s) Apr. 23, gage height 2.74 ft (0.835 m); no flow many months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	6.0	1.2	25	16	2.3	.00	.00
2	.00	.00	.00	.00	.00	6.2	1.2	23	31	3.1	.00	.00
3	.00	.00	.00	.00	.00	6.2	1.2	22	27	3.4	.00	.00
4	.00	.00	.00	.00	.00	6.6	1.3	22	33	3.2	.00	.00
5	.00	.00	.00	.00	.00	7.0	1.6	22	29	3.0	.00	.00
6	.00	.00	.00	.00	.00	6.4	2.0	25	24	2.6	.00	.00
7	.00	.00	.00	.00	.00	6.0	1.8	25	21	2.5	.00	.00
8	.00	.00	.00	.00	.00	5.6	1.6	24	20	2.6	.00	.00
9	.00	.00	.00	.00	.00	5.4	1.1	26	18	2.5	.00	.00
10	.00	.00	.00	.00	.00	5.4	.88	21	16	2.0	.00	.00
11	.00	.00	.00	.00	.00	5.6	1.1	26	15	1.7	.00	.00
12	.00	.00	.00	.00	.00	6.0	1.6	24	13	1.5	.00	.00
13	.00	.00	.00	.00	.00	5.6	2.2	17	12	1.6	.00	.00
14	.00	.00	.00	.00	.00	5.4	2.3	13	11	2.0	.00	.00
15	.00	.00	.00	.00	.00	5.2	2.4	14	9.8	1.8	.00	.00
16	.00	.00	.00	.00	.00	4.8	3.2	12	9.1	1.5	.00	.00
17	.00	.00	.00	.00	.00	4.1	5.2	12	7.4	1.4	.00	.00
18	.00	.00	.00	.00	.00	3.4	7.0	10	6.4	1.3	.00	.00
19	.00	.00	.00	.00	.00	2.8	10	10	6.0	1.1	.00	.00
20	.00	.00	.00	.00	.00	2.4	16	10	5.8	.95	.00	.00
21	.00	.00	.00	.00	.25	2.2	25	11	5.2	.82	.00	.00
22	.00	.00	.00	.00	.50	2.2	34	11	4.9	.70	.00	.00
23	.00	.00	.00	.00	1.0	1.8	51	12	4.2	.54	.00	.00
24	.00	.00	.00	.00	3.0	1.7	53	13	3.6	.39	.00	.00
25	.00	.00	.00	.00	6.0	1.6	42	13	3.2	.14	.00	.00
26	.00	.00	.00	.00	6.4	1.5	34	13	2.5	.02	.00	.00
27	.00	.00	.00	.00	6.4	1.3	30	11	2.1	.00	.00	.00
28	.00	.00	.00	.00	6.4	1.3	32	9.8	2.0	.00	.00	.00
29	.00	.00	.00	.00	6.4	1.3	33	10	1.8	.00	.00	.00
30	.00	.00	.00	.00	---	1.2	29	10	2.0	.00	.00	.00
31	.00	---	.00	.00	---	1.2	---	13	---	.00	.00	---
TOTAL	.00	.00	.00	.00	36.35	123.4	427.88	509.8	362.0	44.66	.00	.00
MEAN	.000	.000	.000	.000	1.25	3.98	14.3	16.4	12.1	1.44	.000	.000
MAX	.00	.00	.00	.00	6.4	7.0	53	26	33	3.4	.00	.00
MIN	.00	.00	.00	.00	.00	1.2	.88	9.8	1.8	.00	.00	.00
AC-FT	.00	.00	.00	.00	72	245	849	1010	718	89	.00	.00

WTR YR 1980 TOTAL 1504.09 MEAN 4.11 MAX 53 MIN .00 AC-FT 2980

10317500 NORTH FORK HUMBOLDT RIVER AT DEVILS GATE, NEAR HALLECK, NV

LOCATION.--Lat 41°10'50", long 115°29'35", in SE¼ sec.13, T.38 N., R.57 E., Elko County, Hydrologic Unit 16040102, on right bank 500 ft (150 m) downstream from Devils Gate Canyon, 16 mi (26 km) north of Halleck, and 26 mi (42 km) upstream from mouth. Prior to Aug. 8, 1975, at site 500 ft (150 m) downstream.

DRAINAGE AREA.--830 mi^2 (2,150 km^2), approximately.

PERIOD OF RECORD.--October 1913 to December 1921, October 1943 to current year. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WSP 1314: 1913 (M), 1946.

GAGE.--Water-stage recorder. Datum of gage is 5,370 ft (1,636.8 m) National Geodetic Vertical Datum of 1929 (Geological Survey planetable bench mark). November 1913 to September 1921 at site 0.1 mi (0.2 km) upstream at different datum. Oct. 16, 1943, to Mar. 20, 1970, at site 500 ft (150 m) downstream at datum 2.00 ft (0.610 m) lower. Mar. 21, 1970, to Oct. 11, 1973, at site 250 ft (80 m) downstream at datum 2.00 ft (0.610 m) lower. Oct. 12, 1973 to Aug. 7, 1975 at site 500 ft (150 m) downstream at datum 2.00 ft (0.610 m) lower.

REMARKS.--Records good except those for winter months and period of no gage-height record Jan. 18 to Feb. 29, which are poor. Many diversions for irrigation of 16,600 acres (67.2 km^2), Humboldt Decree, above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--45 years, 74.2 ft3/s (2.101 m^3/s), 53,760 acre-ft/yr (66.3 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,400 ft^3/s (295 m^3/s) Feb. 11, 1962, gage height, 16.12 ft (4.913 m), from high-water mark in well, from rating curve extended above 2,000 ft^3/s (56.6 m^3/s) on basis of slope-area measurement of peak flow; minimum, 1.1 ft^3/s (0.031 m^3/s) July 26, 1960.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 170 ft^3/s (4.81 m^3/s) and maximum (*)

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 14	0900	*1930	54.7	9.55	2.911	May 13	0500	466	13.2	5.29	1.612
Feb. 18	Unknown	760	21.5	6.41	1.954	June 4	2100	486	13.8	5.41	1.649
Apr. 25	0700	405	11.5	5.04	1.536						

Minimum daily discharge, 6.1 ft^3/s (0.17 m^3/s) Aug. 13, 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.8	16	16	21	35	154	72	261	242	78	14	8.2
2	7.8	16	18	21	32	143	70	256	350	85	15	8.2
3	7.8	16	20	21	33	141	67	247	427	101	13	8.6
4	7.8	17	21	21	35	140	70	245	456	98	12	8.6
5	7.8	17	22	22	45	150	72	247	469	87	11	8.6
6	7.8	18	22	23	55	140	81	271	427	74	9.8	9.0
7	7.8	18	21	22	50	120	78	307	358	70	9.0	9.0
8	7.8	17	22	21	45	115	74	358	309	66	8.6	9.4
9	7.8	17	23	21	40	104	81	402	261	64	8.2	10
10	7.8	16	22	24	40	101	98	433	226	63	7.8	13
11	7.8	16	20	71	41	104	98	415	205	54	7.4	16
12	7.8	15	17	535	46	96	91	443	205	46	6.4	16
13	9.0	15	17	1440	48	90	107	452	186	40	6.1	16
14	9.4	15	17	1800	50	90	133	342	186	32	6.1	17
15	9.4	15	17	809	90	97	167	306	188	29	6.4	17
16	9.4	15	18	256	200	86	186	317	188	31	7.4	15
17	9.4	17	18	180	400	76	207	286	174	29	8.2	15
18	9.8	17	19	140	900	81	249	245	154	27	8.2	14
19	13	16	20	100	600	82	261	222	145	25	8.2	14
20	16	16	20	80	400	74	286	203	145	22	8.2	13
21	16	16	20	90	280	73	291	188	133	20	7.8	13
22	14	15	20	86	200	71	291	174	129	22	7.1	13
23	14	16	19	84	180	67	328	190	128	22	7.1	13
24	14	17	18	82	150	67	358	245	123	21	6.7	13
25	14	18	18	78	140	65	390	291	116	20	7.1	13
26	14	18	18	60	150	63	358	291	113	18	9.0	13
27	13	18	18	50	165	67	317	264	93	17	8.6	13
28	13	18	19	45	170	67	304	226	82	16	8.2	13
29	13	17	19	40	170	65	276	205	78	14	7.8	12
30	13	16	18	27	---	67	271	192	78	14	8.2	12
31	15	---	20	25	---	67	---	196	---	14	8.2	---
TOTAL	332.0	494	597	6295	4790	2923	5732	8720	6374	1319	266.8	373.6
MEAN	10.7	16.5	19.3	203	165	94.3	191	281	212	42.5	8.61	12.5
MAX	16	18	23	1800	900	154	390	452	469	101	15	17
MIN	7.8	15	16	21	32	63	67	174	78	14	6.1	8.2
AC-FT	659	980	1180	12490	9500	5800	11370	17300	12640	2620	529	741

CAL YR 1979 TOTAL 30561.0 MEAN 83.7 MAX 1050 MIN 3.6 AC-FT 60620
WTR YR 1980 TOTAL 38216.4 MEAN 104 MAX 1800 MIN 6.1 AC-FT 75800

10318500 HUMBOLDT RIVER NEAR ELKO, NV

LOCATION.--Lat 40°56'00", long 115°38'00", in SE¼NE¼ sec.11, T.35 N., R.56 E., Elko County, Hydrologic Unit 16040101, on right bank 1 mi (2 km) southwest of Ryndon, 1.5 mi (2.4 km) upstream from Jackson Creek, 5 mi (8 km) downstream from North Fork, and 10 mi (16 km) northeast of Elko.

DRAINAGE AREA.--2,800 mi^2 (7,252 km^2), approximately.

PERIOD OF RECORD.--June 1895 to October 1902, October 1944 to current year.

REVISED RECORDS.--WSP 1714: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,142.32 ft (1,567.379 m) National Geodetic Vertical Datum of 1929. June 1895 to October 1902, nonrecording gage at site 11 mi (18 km) downstream at different datum.

REMARKS.--Records good except those for winter months, which are poor. Diversions for irrigation of 95,800 acres (388 km^2), Humboldt Decree, above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--43 years (1896-1902, 1945-80), 239 ft^3/s (6.768 m3/s), 173,160 acre-ft/yr (214 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,070 ft^3/s (200 m^3/s) Feb. 13, 1962, gage height, 12.3 ft (3.75 m); no flow for many days in August and September 1948.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,670 ft^3/s (75.6 m^3/s) June 4, gage height, 8.90 ft (2.713 m); minimum daily, 4.3 ft^3/s (0.12 m^3/s) Oct. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	28	48	62	190	495	188	720	1870	770	107	15
2	4.3	30	53	64	200	446	188	677	1860	788	98	14
3	5.2	34	61	64	212	434	196	673	2170	898	88	13
4	5.2	40	64	64	224	455	204	677	2600	950	84	13
5	4.6	48	64	67	237	470	212	743	2620	981	79	12
6	4.8	51	65	70	241	479	235	830	2490	936	67	13
7	4.8	51	66	65	239	452	230	925	2310	860	66	12
8	4.6	51	66	64	237	414	224	1090	2070	795	62	14
9	4.8	49	68	65	239	375	226	1180	1810	739	57	16
10	4.8	46	69	72	233	340	233	1300	1640	686	53	19
11	5.0	45	54	82	235	323	250	1480	1520	628	48	26
12	5.0	42	51	266	230	310	243	1720	1460	565	43	29
13	5.0	39	50	604	228	296	241	1860	1440	511	38	42
14	5.3	40	50	1320	237	286	257	1860	1470	450	33	42
15	5.3	40	50	1910	268	277	282	1600	1470	405	28	39
16	5.5	39	52	1400	495	272	305	1450	1450	369	23	36
17	6.0	53	55	998	539	259	328	1350	1390	338	23	36
18	6.4	52	57	731	594	250	348	1220	1300	309	22	33
19	9.0	46	60	507	961	261	394	1080	1230	282	28	30
20	11	46	62	397	1100	263	420	976	1220	256	32	26
21	15	46	63	375	848	261	443	883	1240	234	30	25
22	19	46	60	346	709	259	467	821	1250	214	28	25
23	20	48	56	359	670	257	488	838	1220	195	26	25
24	20	50	55	335	621	250	555	1210	1170	181	23	25
25	18	54	54	310	555	241	645	1880	1120	169	22	26
26	17	54	54	303	523	228	702	2170	1050	153	19	26
27	16	53	54	286	510	220	731	2230	956	129	18	26
28	16	52	56	233	533	214	754	2290	879	111	18	26
29	22	51	55	233	558	206	750	2130	837	112	16	24
30	21	49	52	208	---	198	743	1900	807	107	17	24
31	22	---	60	190	---	194	---	1880	---	103	17	---
TOTAL	317.0	1373	1784	12050	12666	9685	11482	41643	45919	14224	1313	732
MEAN	10.2	45.8	57.5	389	437	312	383	1343	1531	459	42.4	24.4
MAX	22	54	69	1910	1100	495	754	2290	2620	981	107	42
MIN	4.3	28	48	62	190	194	188	673	807	103	16	12
AC-FT	629	2720	3540	23900	25120	19210	22770	82600	91080	28210	2600	1450

CAL YR 1979 TOTAL 94052.8 MEAN 258 MAX 1410 MIN 1.4 AC-FT 186600
WTR YR 1980 TOTAL 153188.0 MEAN 419 MAX 2620 MIN 4.3 AC-FT 303800

10320000 SOUTH FORK HUMBOLDT RIVER ABOVE DIXIE CREEK, NEAR ELKO, NV

LOCATION.--Lat 40°41'05", long 115°48'45", in NW¼SW¼ sec.5, T.32 N., R.55 E., Elko County, Hydrologic Unit 16040103, on left bank 1.5 mi (2.4 km) upstream from Dixie Creek and 10.5 mi (16.9 km) south of Elko.

DRAINAGE AREA.--1,150 mi^2 (2,978 km^2), approximately.

PERIOD OF RECORD.--October 1948 to current year. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WSP 1284: 1952 (M).

GAGE.--Water-stage recorder. Altitude of gage is 5,140 ft (1,567 m), from topographic map.

REMARKS.--Records good except those for winter months, which are poor. Diversions for irrigation of 36,200 acres (147 km^2), Humboldt Decree, above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--32 years, 119 ft^3/s (3.370 m^3/s), 86,220 acre-ft/yr (106 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,100 ft^3/s (87.8 m^3/s) Jan. 12, 1979, gage height, 6.80 ft (2.073 m); minimum daily, 0.10 ft^3/s (0.003 m^3/s) Sept. 9, 1959.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 400 ft^3/s (11.3 m^3/s) and maximum (*)

Date	Time	Discharge		Gage height	
		(ft^3/s)	(m^3/s)	(ft)	(m)
Jan. 12	2200	678	19.2	4.17	1.271
May 13	0200	732	20.7	4.13	1.259
June 3	0700	*1,460	41.3	4.98	1.518

Minimum daily discharge, 9.6 ft^3/s (0.27 m^3/s) Oct. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	18	18	25	47	61	64	244	1050	509	72	16
2	11	17	20	24	46	61	61	242	1210	541	67	15
3	11	17	21	24	45	64	62	258	1400	537	60	16
4	11	21	23	24	45	82	62	282	1250	501	54	16
5	9.8	24	24	25	45	93	63	307	1140	436	50	16
6	9.8	22	25	26	47	93	66	355	1040	372	45	16
7	9.8	21	25	25	47	91	62	402	910	328	44	19
8	9.8	20	25	24	47	82	62	382	806	315	39	23
9	9.8	20	24	26	47	74	61	406	798	297	28	25
10	9.8	19	22	28	45	72	61	417	857	274	33	32
11	9.7	19	20	25	44	73	55	503	959	256	31	34
12	9.8	20	19	60	44	72	58	594	1010	247	29	35
13	9.7	20	19	230	44	71	60	653	965	237	24	31
14	9.6	20	19	122	48	68	60	569	906	231	22	29
15	9.7	21	19	87	55	67	67	542	812	218	20	26
16	10	20	20	69	52	62	88	528	745	212	19	25
17	10	18	21	63	50	59	108	457	732	193	18	24
18	11	18	22	59	67	64	125	412	780	183	17	22
19	12	18	23	55	92	68	149	368	817	166	20	21
20	16	17	23	54	106	67	192	381	861	152	22	20
21	16	17	23	53	92	66	198	400	846	139	19	21
22	15	17	23	52	101	66	193	474	779	125	17	21
23	14	18	21	51	90	66	197	708	707	118	17	21
24	14	19	21	51	78	64	197	1090	630	110	16	20
25	14	19	20	50	71	59	195	1100	575	100	16	20
26	14	19	20	50	69	58	185	1000	540	92	17	19
27	16	19	21	50	67	60	190	983	501	86	17	19
28	16	19	22	50	65	60	223	997	439	80	17	18
29	16	19	21	49	63	61	244	932	425	78	17	18
30	16	18	20	49	---	63	249	900	451	77	16	18
31	17	---	24	48	---	61	---	963	---	76	16	---
TOTAL	378.3	574	668	1628	1759	2128	3657	17849	24941	7286	899	656
MEAN	12.2	19.1	21.5	52.5	60.7	68.6	122	576	831	235	29.0	21.9
MAX	17	24	25	230	106	93	249	1100	1400	541	72	35
MIN	9.6	17	18	24	44	58	55	242	425	76	16	15
AC-FT	750	1140	1320	3230	3490	4220	7250	35400	49470	14450	1780	1300

CAL YR 1979 TOTAL 57742.5 MEAN 158 MAX 2310 MIN 9.4 AC-FT 114500
WTR YR 1980 TOTAL 62423.3 MEAN 171 MAX 1400 MIN 9.6 AC-FT 123800

10321000 HUMBOLDT RIVER NEAR CARLIN, NV
(National stream-quality accounting network station)

LOCATION.--Lat 40°43'40", long 116°00'30", in SE¼SE¼ sec.21, T.33 N., R.53 E., Elko County, Hydrologic Unit 16040101, on right bank 1.0 mi (1.6 km) downstream from Tonka Creek, 4.5 mi (7.2 km) southwest of Moleen, 5 mi (8 km) upstream from Susie Creek, 5.5 mi (8.8 km) east of Carlin, and 15 mi (24 km) southwest of Elko.

DRAINAGE AREA.--4,310 mi^2 (11,160 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1943 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,931.91 ft (1,503.246 m) Nevada State Highway Department Datum.

REMARKS.--Records good except those for period of no gage-height record, Aug. 15 to Sept. 30, which are fair. Many diversions for irrigation of 143,000 acres (579 km^2) Humboldt Decree, above station.

AVERAGE DISCHARGE.--37 years, 348 ft^3/s (9.855 m^3/s), 252,100 acre-ft/yr (311 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,160 ft^3/s (174 m^3/s) Feb. 14, 1962, gage height, 10.21 ft (3.112 m); minimum, 0.1 ft^3/s (0.003 m^3/s) Aug. 16, 1959.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Feb. 28, 1910, estimated to have reached 15,000 ft^3/s (425 m^3/s), based on reported stage and comparison with Humboldt River at Palisade.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,970 ft^3/s (112 m^3/s) June 6, gage height, 7.64 ft (2.329 m); minimum, 16 ft^3/s (0.45 m^3/s) Oct. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	48	69	98	206	628	266	918	3080	1400	176	39
2	20	50	76	94	242	599	262	911	3240	1450	170	37
3	20	50	91	95	249	551	258	874	3540	1410	174	37
4	20	57	92	93	239	543	261	882	3450	1430	158	37
5	17	64	93	99	237	558	272	909	3690	1460	139	36
6	17	66	94	102	271	578	289	965	3930	1450	133	36
7	17	66	94	95	270	581	295	1080	3690	1420	125	37
8	19	71	96	94	251	558	297	1140	3360	1360	116	40
9	19	70	95	102	246	514	291	1230	3080	1270	106	44
10	23	68	102	109	245	474	286	1390	2840	1150	96	52
11	22	68	80	75	253	440	293	1620	2690	1040	89	60
12	22	66	73	152	254	414	304	1850	2610	945	82	59
13	22	65	72	376	254	394	306	2090	2490	841	76	61
14	22	66	72	614	257	374	306	2240	2380	767	69	60
15	22	66	74	743	285	359	313	2470	2320	690	66	61
16	25	65	76	1060	306	344	345	2440	2290	632	64	60
17	27	67	80	1430	411	336	367	2140	2250	564	62	58
18	24	69	84	1240	544	333	410	1920	2230	513	60	56
19	26	70	89	962	658	323	436	1800	2210	466	58	55
20	36	67	90	621	821	329	498	1660	2190	421	56	56
21	47	66	91	457	1010	330	547	1550	2170	385	54	56
22	40	66	88	381	1150	326	585	1490	2100	353	52	56
23	37	70	80	361	997	322	634	1510	2050	323	51	53
24	39	74	80	368	870	320	663	1800	1970	297	50	53
25	42	74	78	336	794	312	708	2080	1900	275	49	52
26	42	74	78	318	710	304	728	2280	1820	257	45	52
27	42	77	80	315	641	297	775	2890	1730	238	43	50
28	43	75	83	283	612	289	815	3210	1610	219	42	50
29	43	73	81	242	611	282	880	3250	1500	199	40	49
30	43	69	76	181	---	278	915	3210	1420	188	40	47
31	45	---	90	160	---	270	---	3150	---	186	39	---
TOTAL	903	1997	2597	11656	13894	12560	13605	56949	75830	23599	2580	1499
MEAN	29.1	66.6	83.8	376	479	405	454	1837	2528	761	83.2	50.0
MAX	47	77	102	1430	1150	628	915	3250	3930	1460	176	61
MIN	17	48	69	75	206	270	258	874	1420	186	39	36
AC-FT	1790	3960	5150	23120	27560	24910	26990	113000	150400	46810	5120	2970

CAL YR 1979 TOTAL 150384 MEAN 412 MAX 2620 MIN 17 AC-FT 298300
WTR YR 1980 TOTAL 217669 MEAN 595 MAX 3930 MIN 17 AC-FT 431700

10321000 HUMBOLDT RIVER NEAR CARLIN, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1949 to October 1951, November 1961 to March 1971, September 1971 to current year (published as Humboldt River at Carlin, sta. no. 10321000, October 1965 to September 1968).

CHEMICAL ANALYSES: October 1965 to September 1968, once-daily (composited); April 1979 to current year, monthly.

SPECIFIC CONDUCTANCES: October 1965 to September 1968, daily; May 1977 to September 1978, April 1979 to current year, monthly.

BIOLOGICAL DATA: May 1979 to current year, monthly (seasonal).

MICROBIOLOGICAL DATA AND SEDIMENT DATA: April 1979 to current year, monthly.

WATER TEMPERATURES: August 1949 to October 1951, monthly (seasonal); November 1961 to March 1971, September 1971 to current year, monthly.

SEDIMENT DATA: May 1979 to current year, monthly.

EXTREMES MEASURED FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCES: Maximum, 677 micromhos Dec. 21, 22, 1966; minimum, 209 micromhos Apr. 30, 1968.

PHYTOPLANKTON: Maximum, 32,000 cells/mL Aug. 25, 1980; minimum, 150 cells/mL Mar. 27, 1980.

FECAL STREPTOCOCCI: Maximum, 830 colonies/100 mL (non-ideal colony count) May 29, 1979; minimum 9 colonies/100 mL (non-ideal colony count) Mar. 27, 1980.

WATER TEMPERATURES: Maximum, 29.0°C July 26, 28, 29, 1968; minimum, freezing point on some days during winter months of most years.

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 862 mg/L May 29, 1979; minimum, 17 mg/L Sept. 30, 1980.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)
OCT										
26...	1335	42	610	8.9	12.5	6.8	11.0	K40	K22	190
NOV										
27...	1530	74	521	8.6	1.0	9.8	12.2	K18	K30	170
DEC										
21...	1145	96	514	8.5	1.0	6.3	12.0	K12	K17	170
FEB										
05...	1500	227	522	7.9	3.0	21	11.2	K6	K19	180
28...	1345	612	550	--	8.0	60	9.6	K40	K29	170
MAR										
27...	1200	299	505	7.6	5.0	19	--	K6	K9	160
APR										
24...	1530	652	308	8.3	12.0	130	8.3	142	K63	100
MAY										
29...	1310	3180	449	7.8	14.5	88	7.6	197	405	140
JUN										
23...	1635	2070	362	--	20.5	23	6.7	K62	K67	140
JUL										
29...	1300	203	427	8.2	24.0	11	8.1	70	K42	160
AUG										
25...	1400	49	545	7.7	19.5	11	9.2	K7	K22	170
SEP										
30...	1330	47	530	8.4	17.0	6.0	11.0	K7	K12	170

K: NON-IDEAL COLONY COUNT.

10321000 HUMBOLDT RIVER NEAR CARLIN, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)
OCT									
26...	1335	54	14	55	1.7	11	230	42	259
NOV									
27...	1530	50	11	44	1.5	7.3	220	14	204
DEC									
21...	1145	50	12	43	1.4	7.2	--	--	--
FEB									
05...	1500	51	13	48	1.6	7.4	250	0	205
28...	1345	47	12	47	1.6	8.2	240	0	197
MAR									
27...	1200	46	12	42	1.4	6.4	240	0	197
APR									
24...	1530	30	7.1	25	1.1	5.3	--	--	--
MAY									
29...	1310	42	9.6	41	1.5	7.9	233	0	190
JUN									
23...	1635	42	9.2	24	.9	5.2	--	--	--
JUL									
29...	1300	46	9.9	31	1.1	5.9	230	0	180
AUG									
25...	1400	50	12	47	1.6	8.2	260	0	216
SEP									
30...	1330	47	12	50	1.7	8.8	260	6	223

DATE	TIME	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)
OCT								
26...	1335	48	27	.6	30	378	395	42.5
NOV								
27...	1530	33	17	.6	31	347	327	69.3
DEC								
21...	1145	33	17	.5	32	324	--	84.3
FEB								
05...	1500	39	17	.5	33	318	333	195
28...	1345	48	20	.5	29	333	331	550
MAR								
27...	1200	37	15	.4	30	317	307	256
APR								
24...	1530	18	9.9	.3	28	230	--	405
MAY								
29...	1310	29	13	.2	29	288	281	2470
JUN								
23...	1635	11	7.9	.3	32	245	--	1370
JUL								
29...	1300	20	10	.5	25	268	257	147
AUG								
25...	1400	40	20	.8	26	345	342	45.6
SEP								
30...	1330	36	23	.6	25	315	336	40.0

10321000 HUMBOLDT RIVER NEAR CARLIN, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)
OCT								
26...	1335	.01	.020	.05	.290	.090	.49	.51
NOV								
27...	1530	.14	.020	.10	.040	.010	.39	.30
DEC								
21...	1145	.15	.030	.18	.080	.000	.92	1.0
FEB								
05...	1500	.23	.010	.15	.120	.040	.49	.47
28...	1345	.30	.020	.13	.020	--	.88	--
MAR								
27...	1200	.04	.010	.05	.030	.010	.48	.45
APR								
24...	1530	.06	.030	--	.070	.080	1.6	.88
MAY								
29...	1310	.07	.020	--	.120	.060	1.2	.85
JUN								
23...	1635	.01	.000	.02	.030	.040	--	1.2
JUL								
29...	1300	.01	.020	.01	.100	.010	.50	--
AUG								
25...	1400	.00	.010	.00	.330	.000	1.1	.82
SEP								
30...	1330	.00	.000	.00	.080	.000	.74	.78

DATE	TIME	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED (MG/L AS C)
OCT								
26...	1335	.81	.65	.280	.250	--	--	.1
NOV								
27...	1530	.59	.41	.180	.150	4.0	--	--
DEC								
21...	1145	1.2	1.2	.160	.110	7.8	--	--
FEB								
05...	1500	.85	.66	.150	.100	--	8.5	.4
28...	1345	1.2	--	.280	.130	9.1	--	--
MAR								
27...	1200	.56	.51	.130	.100	13	--	--
APR								
24...	1530	1.8	--	.350	.140	13	--	--
MAY								
29...	1310	1.4	--	.290	.080	--	11	1.5
JUN								
23...	1635	--	1.2	.060	.070	8.9	--	--
JUL								
29...	1300	.63	--	.130	.070	--	5.5	.4
AUG								
25...	1400	1.4	.82	.060	.080	10	--	--
SEP								
30...	1330	.82	.78	.130	.110	4.4	--	--

10321000 HUMBOLDT RIVER NEAR CARLIN, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, TOTAL (UG/L AS BA)	BARIUM, DIS-SOLVED (UG/L AS BA)	CADMIUM TOTAL (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, TOTAL (UG/L AS CO)	COBALT, DIS-SOLVED (UG/L AS CO)
OCT											
26...	1335	10	10	200	100	0	2	0	0	0	<3
FEB											
05...	1500	7	6	200	90	0	<1	0	0	3	<3
MAY											
29...	1310	8	7	200	90	1	<1	10	0	3	<3
JUL											
29...	1300	9	7	100	90	0	1	0	0	3	<3

DATE	TIME	COPPER, TOTAL (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)
OCT							
26...	1335	0	2	490	<10	4	0
FEB							
05...	1500	31	1	1700	30	2	2
MAY							
29...	1310	34	13	5000	20	24	0
JUL							
29...	1300	8	2	1600	40	4	2

DATE	TIME	MANGA-NESE, TOTAL (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	NICKEL, TOTAL (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)
OCT							
26...	1335	90	9	.4	.2	4	1
FEB							
05...	1500	60	7	.1	.2	4	0
MAY							
29...	1310	160	10	.1	.1	8	0
JUL							
29...	1300	80	20	.1	.0	2	0

DATE	TIME	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, TOTAL (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT							
26...	1335	0	0	0	0	30	<3
DEC							
21...	1145	--	--	0	--	--	--
FEB							
05...	1500	0	0	1	0	20	<3
APR							
24...	1530	--	--	0	--	--	--
MAY							
29...	1310	2	0	0	0	60	9
JUN							
23...	1635	--	--	0	--	--	--
JUL							
29...	1300	0	0	0	0	30	10
SEP							
30...	1330	--	--	0	--	--	--

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE	OCT 26,79	NOV 27,79	MAR 27,80	MAY 29,80
TIME	1335	1530	1200	1310
TOTAL CELLS/ML	20000	1400	150	1500
DIVERSITY: DIVISION	0.8	1.3	1.2	1.3
.CLASS	0.8	1.3	1.2	1.3
..ORDER	1.2	1.5	1.6	1.5
...FAMILY	1.7	3.1	2.6	1.8
....GENUS	1.7	3.2	2.6	1.8

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...CHARACIACEAE								
....SCHROEDERIA	--	-	--	-	--	-	--	-
...HYDRODICTYACEAE								
....PEDIASTRUM	2400	12	49	3	--	-	--	-
...MICRACTINIACEAE								
....GOLENKINIA	--	-	--	-	--	-	13	1
....MICRACTINIUM	--	-	--	-	--	-	--	-
...OOCYSTACEAE								
....ANKISTRODESMUS	590	3	39	3	--	-	--	-
....DICTYOSPHAERIUM	--	-	--	-	--	-	--	-
....GLOEOACTINIUM	--	-	--	-	--	-	52	4
....KIRCHNERIELLA	--	-	--	-	--	-	--	-
....OOCYSTIS	--	-	--	-	--	-	--	-
....TREUBARIA	--	-	--	-	--	-	--	-
...SCENEDESMACEAE								
....ACTINASTRUM	--	-	--	-	--	-	--	-
....SCENEDESMUS	1500	8	3000#	20	--	-	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	440	2	--	-	13	8	--	-
...PHACOTACEAE								
....PTEROMONAS	--	-	--	-	--	-	--	-
...VOLVOCACEAE								
....PANDORINA	--	-	--	-	--	-	--	-
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	14000#	69	79	5	13	8	90	6
....MELOSIRA	--	-	--	-	--	-	--	-
..PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	--	-	--	-	--	-	--	-
....COCCONEIS	--	-	20	1	--	-	--	-
...CYMBELLACEAE								
....CYMBELLA	--	-	30	2	--	-	--	-
....EPITHEMIA	--	-	20	1	--	-	--	-
...DIATOMACEAE								
....DIATOMA	150	1	89	6	--	-	--	-
...FRAGILARIACEAE								
....SYNEDRA	300	2	140	10	13	8	--	-
...GOMPHONEMATACEAE								
....GOMPHONEMA	--	-	30	2	13	8	--	-
...NAVICULACEAE								
....NAVICULA	300	2	190	13	--	-	90	6
...NITZSCHIACEAE								
....NITZSCHIA	440	2	3200#	22	64#	42	5000#	35
...SURIRELLACEAE								
....SURIRELLA	--	-	--	-	13	8	--	-
CRYPTOPHYTA (CRYPTOMONADS)								
.CRYPTOPHYCEAE								
..CRYPTOMONADALES								
...CRYPTOCHRYSIDACEAE								
....CHROOMONAS	--	-	--	-	--	-	--	-
...CRYPTOMONADACEAE								
....CRYPTOMONAS	--	-	--	-	13	8	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROOCOCCALES								
...CHROOCOCCACEAE								
....ANACYSTIS	--	-	160	11	--	-	--	-
..HORMOGONALES								
...NOSTOCACEAE								
....ANABAENA	--	-	--	-	--	-	--	-
....ANABAENOPSIS	--	-	--	-	--	-	--	-
...OSCILLATORIACEAE								
....LYNGBYA	--	-	--	-	--	-	700#	48
....OSCILLATORIA	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....EUGLENA	--	-	--	-	13	8	13	1

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

10321000 HUMBOLDT RIVER NEAR CARLIN, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE	JUN 23,80	JUL 29,80	AUG 25,80	SEP 30,80
TIME	1635	1300	1400	1330
TOTAL CELLS/ML	1100	3100	32000	13000
DIVERSITY: DIVISION	1.4	1.5	0.7	1.0
.CLASS	1.4	1.5	0.7	1.0
..ORDER	2.0	2.0	1.1	1.1
...FAMILY	2.8	2.8	1.6	1.2
....GENUS	2.9	3.4	1.8	1.2

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...CHARACIACEAE								
....SCHROEDERIA	--	-	*	0	*	0	--	-
...HYDRODICTYACEAE								
....PEDIASTRUM	--	-	--	-	--	-	--	-
...MICRACTINIACEAE								
....GOLENKINIA	--	-	--	-	--	-	--	-
....MICRACTINIUM	--	-	--	-	--	-	3700#	28
...OOCYSTACEAE								
....ANKISTRODESMUS	55	5	58	2	500	2	500	4
....DICTYOSPHAERIUM	--	-	--	-	21000#	67	--	-
....GLOEOACTINIUM	--	-	--	-	--	-	--	-
....KIRCHNERIELLA	14	1	--	-	--	-	--	-
....OOCYSTIS	--	-	*	0	*	0	--	-
....TREUBARIA	--	-	--	-	*	0	--	-
...SCENEDESMACEAE								
....ACTINASTRUM	--	-	--	-	2000	6	--	-
....SCENEDESMUS	83	8	140	5	200	1	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	-	100	3	*	0	100	1
...PHACOTACEAE								
....PTEROMONAS	--	-	*	0	--	-	--	-
...VOLVOCACEAE								
....PANDORINA	--	-	--	-	1600	5	--	-
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	83	8	430	14	4600	15	8700#	66
....MELOSIRA	41	4	--	-	--	-	--	-
..PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	28	3	*	0	--	-	--	-
....COCCONEIS	--	-	*	0	--	-	--	-
...CYMBELLACEAE								
....CYMBELLA	--	-	--	-	--	-	--	-
....EPITHEMIA	14	1	--	-	--	-	--	-
...DIATOMACEAE								
....DIATOMA	14	1	--	-	--	-	--	-
...FRAGILARIACEAE								
....SYNEDRA	--	-	--	-	*	0	--	-
...GOMPHONEMATACEAE								
....GOMPHONEMA	41	4	*	0	--	-	--	-
...NAVICULACEAE								
....NAVICULA	69	6	86	3	400	1	--	-
...NITZSCHIACEAE								
....NITZSCHIA	180#	16	480#	15	300	1	100	1
...SURIRELLACEAE								
....SURIRELLA	--	-	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)								
.CRYPTOPHYCEAE								
..CRYPTOMONADALES								
...CRYPTOCHRYSIDACEAE								
....CHROOMONAS	--	-	*	0	*	0	--	-
...CRYPTOMONADACEAE								
....CRYPTOMONAS	--	-	43	1	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROOCOCCALES								
...CHROOCOCCACEAE								
....ANACYSTIS	41	4	43	1	200	1	100	1
..HORMOGONALES								
...NOSTOCACEAE								
....ANABAENA	--	-	350	11	--	-	--	-
....ANABAENOPSIS	--	-	370	12	--	-	--	-
...OSCILLATORIACEAE								
....LYNGBYA	--	-	330	11	--	-	--	-
....OSCILLATORIA	430#	39	580#	19	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....EUGLENA	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

10321000 HUMBOLDT RIVER NEAR CARLIN, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO 1980

PERIPHYTON

RETRIEVAL DATE	LENGTH OF EXPOSURE POLYETHYLENE STRIP (DAYS)	BIOMASS (G/M^2) DRY WEIGHT	BIOMASS (G/M^2) ASH WEIGHT	CHLOROPHYLL A (MG/M^2)	CHLOROPHYLL B (MG/M^2)
Nov 27	32	9.53	8.82	3.80	2.11

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT CHARGE, SUSPENDED (T/DAY)	SED. SUSP. DIAM. % FINER THAN .062 MM
OCT					
26...	1335	42	24	2.7	--
NOV					
27...	1530	74	66	13.1	--
DEC					
21...	1145	96	48	12	--
FEB					
05...	1500	227	75	46	89
28...	1345	612	250	413	83
MAR					
27...	1200	299	60	48	--
APR					
24...	1530	652	480	845	81
MAY					
29...	1310	3180	488	4190	--
JUN					
23...	1635	2070	215	1200	--
JUL					
29...	1300	203	54	30	--
AUG					
25...	1400	49	35	4.6	--
SEP					
30...	1330	47	17	2.2	--

10322500 HUMBOLDT RIVER AT PALISADE, NV

LOCATION.--Lat 40°36'25", long 116°12'05", in SE¼SE¼ sec.35, T.32 N., R.51 E., Eureka County, Hydrologic Unit 16040101, on right bank 0.2 mi (0.3 km) downstream from Southern Pacific Railroad bridge, 0.5 mi (0.8 km) downstream from Palisade, and 0.8 mi (1.3 km) upstream from Pine Creek.

DRAINAGE AREA.--5,010 mi^2 (12,980 km^2), approximately.

PERIOD OF RECORD.--October 1902 to October 1906, July 1911 to current year. Monthly discharge only for some periods published in WSP 1314.

REVISED RECORDS.--WSP 1514, 1903-4, 1912, 1914.

GAGE.--Water-stage recorder. Datum of gage is 4,825.55 ft (1,470.828 m) National Geodetic Vertical Datum of 1929. Prior to Apr. 1, 1939, nonrecording gages (water-stage recorder Apr. 22 to June 3, 1935) at several sites within half a mile of present site at various datums.

REMARKS.--Records fair. Diversions for irrigation of 148,000 acres (599 km^2), Humboldt Decree, of hay and pastureland above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--73 years (1902-6, 1911-80) 373 ft^3/s (10.56 m^3/s), 270,200 acre-ft/yr (333 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,610 ft^3/s (187 m^3/s) Feb. 12, 1962, gage height, 10.0 ft (3.05 m); minimum, 2 ft^3/s (0.06 m^3/s) Aug. 25-28, 1931.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, about 17 ft (5.3 m), present datum, about Feb. 28, 1910, from photographs and written statements of resident witnesses, discharge, about 17,000 ft^3/s (481 m^3/s), from rating curve extended above 7,000 ft^3/s (198 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,950 ft^3/s (112 m^3/s) June 7, gage height, 7.55 ft (2.301 m); minimum daily, 24 ft^3/s (0.68 m^3/s) Oct. 6, 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	64	75	128	256	796	346	1220	3210	1430	202	55
2	28	66	85	122	265	766	346	1240	3260	1470	191	53
3	28	70	94	123	307	725	339	1190	3550	1430	191	53
4	26	76	92	122	298	720	336	1190	3630	1460	184	53
5	26	82	96	130	292	715	342	1220	3630	1470	162	51
6	24	85	98	132	310	720	356	1230	3870	1470	148	51
7	24	85	94	125	328	725	370	1280	3850	1440	144	53
8	26	87	98	121	322	710	384	1340	3620	1390	137	56
9	26	89	100	125	298	670	392	1370	3320	1300	127	63
10	26	89	102	135	298	625	395	1550	3070	1180	113	75
11	32	89	92	100	298	588	407	1770	2860	1070	98	85
12	31	87	59	305	301	560	415	2040	2770	988	87	83
13	32	85	72	1540	310	534	427	2300	2660	892	89	87
14	31	85	89	2190	313	524	443	2380	2560	826	85	85
15	32	87	92	1260	435	498	455	2500	2490	750	78	87
16	34	85	91	1230	480	471	480	2560	2440	690	78	85
17	37	83	85	1640	560	447	520	2430	2380	640	75	83
18	39	89	83	1380	1050	451	565	2330	2320	574	71	80
19	40	87	85	1040	1060	443	610	2220	2310	529	71	78
20	45	76	98	740	1040	435	670	2080	2300	480	71	80
21	59	68	113	520	1160	435	730	1910	2280	443	70	80
22	59	66	117	460	1300	431	802	1830	2210	407	73	78
23	55	87	115	440	1140	423	886	1810	2140	367	71	76
24	55	92	106	460	1000	423	958	1870	2060	332	68	76
25	56	98	104	410	928	411	1010	2140	1970	307	66	75
26	59	107	102	390	868	399	1050	2390	1890	280	63	75
27	59	96	103	384	820	392	1080	2660	1790	262	61	73
28	59	92	108	350	808	384	1120	3000	1690	250	59	73
29	59	84	107	300	802	370	1160	3230	1590	229	56	70
30	59	80	100	218	---	364	1190	3280	1480	213	56	68
31	61	---	120	191	---	353	---	3250	---	210	56	---
TOTAL	1255	2516	2975	16811	17647	16508	18584	62810	79200	24779	3101	2140
MEAN	40.5	83.9	96.0	542	609	533	619	2026	2640	799	100	71.3
MAX	61	107	120	2190	1300	796	1190	3280	3870	1470	202	87
MIN	24	64	59	100	256	353	336	1190	1480	210	56	51
AC-FT	2490	4990	5900	33340	35000	32740	36860	124600	157100	49150	6150	4240

CAL YR 1979 TOTAL 168917 MEAN 463 MAX 2750 MIN 16 AC-FT 335000
WTR YR 1980 TOTAL 248326 MEAN 678 MAX 3870 MIN 24 AC-FT 492600

10323500 HUMBOLDT RIVER NEAR ARGENTA, NV

LOCATION.--Lat 40°40'45", long 116°38'45", in SE¼NW¼ sec.2, T.32 N., R.47 E., Lander County, Hydrologic Unit 16040105, on left bank 3 mi (5 km) east of Argenta, and 15.5 mi (24.9 km) east of Battle Mountain.

DRAINAGE AREA.--7,490 mi^2 (19,400 km^2), approximately.

PERIOD OF RECORD.--February 1946 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,580 ft (1,396 m), from topographic map.

REMARKS.--Records fair except those for winter months and period of no gage height record, June 16 to July 23, which are poor. Many diversions above station for irrigation. Records do not include flow in secondary channels or ditches, much of which is used for irrigation. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--34 years, 339 ft^3/s (9.600 m^3/s), 245,600 acre-ft/yr (303 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,000 ft^3/s (170 m^3/s) Feb. 15, 1962, gage height, 10.78 ft (3.286 m), on basis of measured flow at adjacent sites (includes flow bypassing gage outside of main channel); maximum gage height, 11.08 ft (3.377 m) May 2, 1952; minimum daily discharge, 0.20 ft^3/s (0.006 m^3/s) Sept. 15 to Oct. 17, 1955.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,020 ft^3/s (114 m^3/s) June 8, gage height, 10.82 ft (3.298 m); minimum daily, 0.81 ft^3/s (0.023 m^3/s) Oct. 11-15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	16	61	110	185	809	367	924	3180	1500	200	30
2	1.3	16	70	115	267	801	364	911	3250	1450	192	28
3	1.2	20	78	110	285	780	343	889	3240	1400	187	28
4	1.2	24	84	112	327	753	335	846	3500	1350	185	27
5	1.2	31	82	112	330	737	335	855	3770	1350	175	25
6	1.0	32	84	118	292	745	343	885	3860	1320	160	23
7	1.0	36	84	121	302	745	356	920	3950	1300	151	21
8	1.0	39	84	115	307	737	354	991	4010	1280	142	21
9	.90	40	87	110	295	710	359	1040	3940	1200	131	21
10	.81	42	88	115	285	668	351	1110	3690	1120	116	23
11	.81	43	82	121	285	631	351	1280	3300	1050	108	28
12	.81	43	78	94	285	596	354	1530	3010	940	92	40
13	.81	47	76	300	285	575	359	1910	2850	850	76	39
14	.81	48	75	1400	287	554	367	2040	2720	790	64	39
15	.81	48	68	1750	297	527	376	2130	2620	740	63	39
16	.88	50	65	1160	401	508	392	2170	2500	680	58	39
17	.88	52	64	1230	407	482	427	2170	2400	620	53	44
18	3.3	52	68	1460	582	473	457	2010	2300	570	50	38
19	6.2	54	72	1290	872	467	511	1790	2200	520	47	35
20	6.6	52	78	1020	920	457	544	1660	2120	480	46	35
21	7.3	50	88	757	955	451	603	1520	2090	440	43	34
22	7.7	49	100	631	1040	451	657	1400	2020	410	40	34
23	8.9	50	105	531	1160	448	710	1330	1990	375	39	34
24	10	75	104	489	1100	439	764	1380	1920	354	40	32
25	10	73	98	467	1010	430	793	1560	1890	330	38	32
26	9.8	75	94	421	959	415	809	1820	1800	309	36	32
27	11	72	92	401	872	407	797	1930	1720	285	35	32
28	12	68	95	387	842	401	821	2290	1650	265	32	31
29	14	63	98	346	821	390	868	2750	1600	250	31	31
30	15	59	96	255	---	378	906	3000	1570	229	31	30
31	15	---	93	207	---	373	---	3210	---	212	30	---
TOTAL	153.62	1419	2591	15855	16255	17338	15373	50251	80660	23969	2691	945
MEAN	4.96	47.3	83.6	511	561	559	512	1621	2689	773	86.8	31.5
MAX	15	75	105	1750	1160	809	906	3210	4010	1500	200	44
MIN	.81	16	61	94	185	373	335	846	1570	212	30	21
AC-FT	305	2810	5140	31450	32240	34390	30490	99670	160000	47540	5340	1870

CAL YR 1979 TOTAL 153279.42 MEAN 420 MAX 2350 MIN .81 AC-FT 304000
WTR YR 1980 TOTAL 227500.62 MEAN 622 MAX 4010 MIN .81 AC-FT 451200

10324500 ROCK CREEK NEAR BATTLE MOUNTAIN, NV

LOCATION.--Lat 40°49'30", long 116°34'45", in SW¼SE¼ sec.17, T.34 N., R.48 E., Eureka County, Hydrologic Unit 16040106, on left bank at mouth of canyon, 22 mi (35 km) northeast of Battle Mountain.

DRAINAGE AREA.--875 mi^2 (2,266 km^2), approximately.

PERIOD OF RECORD.--March to July 1896, March 1918 to September 1925 (fragmentary October 1923 to April 1925), March 1927 to May 1929 (fragmentary), October 1945 to current year. Monthly discharge only for some periods, published WSP 1314.

REVISED RECORDS.--WSP 1214: 1950 (M); WSP 1714: 1959; WDR NV-76-1: 1971 (P), 1974 (P).

GAGE.--Water-stage recorder. Altitude of gage is 4,600 ft (1,402 m), estimated from nearby U.S. Coast and Geodetic Survey bench mark. Prior to Mar. 26, 1918, nonrecording gage at site about 11 mi (17.7 km) upstream at different datum. Mar. 26, 1918, to Oct. 28, 1970, water-stage recorder at site 0.4 mi (0.6 km) upstream, at the following datums: at different datum Mar. 26, 1918, to Jan. 3, 1946, at datum 9.45 ft (2.880 m) higher Jan. 4, 1946, to July 23, 1964, at datum 7.35 ft (2.240 m) higher July 23, 1964 to Oct. 31, 1968, and at datum 6.34 ft (1.932 m) higher Nov. 1, 1968, to Oct. 28, 1970.

REMARKS.--Records good except those for winter months and period of no-gage height record, Feb. 12 to Mar. 7, which are poor. Seven diversions for irrigation of 4,380 acres (17.7 km^2), Humboldt Decree, in valleys upstream. Station is above all diversions in Boulder Flat and below all tributaries. Flow slightly affected by small reservoir in Squaw Valley, 30 mi (48 km) upstream, and by Willow Creek Reservoir, usable capacity, 18,000 acre-ft (22.2 hm^3). Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--40 years (1918-23, 1945-80), 34.5 ft^3/s (0.977 m^3/s), 25,000 acre-ft/yr (30.8 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,800 ft^3/s (136 m^3/s) Feb. 11, 1962, gage height, 6.89 ft (2.100 m), from rating curve extended above 2,500 ft^3/s (70.8 m^3/s) on basis of slope-area measurement of peak flow; no flow at times in July to October nearly every year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 75 ft^3/s (2.12 m^3/s) and maximum (*)

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 13	1600	*2860	81.0	7.80	2.377	May 13	0100	139	3.94	3.42	1.042
Feb. 18	Unknown	about 1200	34.0	Unknown		June 6	2300	253	7.16	3.84	1.170
Apr. 25	1600	188	5.32	3.64	1.109						

Minimum daily discharge 0.27 ft^3/s (0.008 m^3/s) Aug. 28, 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.82	4.1	6.5	5.2	8.5	100	39	132	84	10	6.3	.37
2	.81	3.7	7.4	5.4	12	110	37	128	118	13	4.1	.37
3	.80	3.1	7.8	5.8	18	130	38	117	220	11	3.1	.32
4	.80	4.1	7.6	6.9	21	140	39	105	235	9.5	3.1	.32
5	.79	4.1	7.6	7.8	23	140	41	87	220	9.1	3.3	.32
6	.78	4.6	7.5	7.5	30	130	46	64	238	8.5	3.7	.32
7	.76	4.8	7.4	9.1	26	125	46	59	244	7.2	2.6	.62
8	.74	3.7	7.3	8.8	22	100	40	56	215	5.3	1.9	1.1
9	.73	3.5	7.1	11	20	88	43	60	191	3.7	1.3	2.2
10	.70	5.1	6.7	15	20	82	45	79	171	2.6	.96	4.8
11	.78	5.5	5.6	15	20	82	55	102	147	2.3	.70	8.5
12	.87	5.6	5.5	618	20	78	52	116	111	2.0	.49	9.5
13	.78	5.8	6.1	1780	23	73	63	137	90	1.9	.42	8.1
14	.86	5.9	6.5	917	22	75	79	124	81	1.9	.42	6.1
15	1.1	6.2	6.6	345	54	66	93	105	78	5.5	.32	6.1
16	1.2	8.0	6.4	186	39	60	105	97	73	6.9	.42	5.3
17	1.2	7.5	6.3	76	66	50	109	87	64	6.9	.42	5.4
18	1.6	6.4	6.1	47	800	54	120	79	55	6.6	.42	5.5
19	2.8	5.2	8.8	38	450	58	143	73	51	6.1	.62	5.4
20	3.1	4.5	7.2	37	300	53	150	68	45	6.6	.70	5.3
21	3.5	4.4	8.1	27	250	49	154	59	41	8.5	.62	5.5
22	3.0	4.7	7.5	25	200	47	154	51	37	5.8	.49	5.8
23	2.7	5.1	7.5	24	150	47	161	49	30	9.1	.42	5.8
24	3.0	5.7	7.2	24	140	44	171	58	25	3.7	.42	6.1
25	3.4	6.3	6.1	24	120	41	178	69	21	4.8	.37	6.1
26	3.3	6.9	4.2	21	140	40	181	72	18	8.8	.42	5.8
27	3.5	6.0	3.8	19	150	42	166	66	16	4.1	.32	5.5
28	4.4	4.5	3.5	15	140	42	154	63	14	5.5	.27	5.3
29	5.1	5.6	3.7	17	110	39	145	61	8.1	4.4	.27	5.1
30	5.1	6.2	4.4	10	---	41	137	60	9.5	4.6	.32	4.8
31	4.6	---	4.7	8.0	---	40	---	61	---	6.9	.37	---
TOTAL	63.62	156.8	198.7	4355.5	3394.5	2266	2984	2544	2950.6	192.8	39.58	131.74
MEAN	2.05	5.23	6.41	141	117	73.1	99.5	82.1	98.4	6.22	1.28	4.39
MAX	5.1	8.0	8.8	1780	800	140	181	137	244	13	6.3	9.5
MIN	.70	3.1	3.5	5.2	8.5	39	37	49	8.1	1.9	.27	.32
AC-FT	126	311	394	8640	6730	4490	5920	5050	5850	382	79	261

CAL YR 1979 TOTAL 18026.01 MEAN 49.4 MAX 500 MIN .05 AC-FT 35750
WTR YR 1980 TOTAL 19277.84 MEAN 52.7 MAX 1780 MIN .27 AC-FT 38240

10325000 HUMBOLDT RIVER AT BATTLE MOUNTAIN, NV

LOCATION.--Lat 40°40'00", long 116°55'50", in NE¼NW¼ sec.8, T.32 N., R.45 E., Lander County, Hydrologic Unit 16040105, 30 ft (9 m) downstream from bridge on State Highway 18A, on left bank 2 mi (3 km) north of Battle Mountain. Reese River enters Humboldt River several miles below station.

DRAINAGE AREA.--8,870 mi^2 (22,970 km^2), approximately.

PERIOD OF RECORD.--May 1896 to December 1897, March 1921 to April 1924, October 1945 to current year. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WSP 1564: 1897-98, 1923.

GAGE.--Water-stage recorder. Altitude of gage is 4,500 ft (1,372 m), from topographic map. Prior to Mar. 1, 1921, nonrecording gage 1.3 mi (2.1 km) upstream and Mar. 1, 1921, to Apr. 19, 1924, nonrecording gage 0.8 mi (1.3 km) upstream, both at different datums. Oct. 1945 to Sept. 20, 1972, water-stage recorder at site 1.0 mi (1.6 km) upstream at datum 4.79 ft (1.460 m) higher.

REMARKS.--Records good except those for period of no gage-height record, Oct. 12 to Jan. 15, which are poor. Records prior to 1969 (except the maximum for the period of record) do not always include flow in secondary channels or ditches at medium-high stages, much of which was used for irrigation. Many diversions above station for irrigation of 194,000 acres (785 km^2) Humboldt Decree. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--38 years (1896-97, 1921-23, 1945-80), 353 ft^3/s (10.00 m^3/s), 255,700 acre-ft/yr (315 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 5,800 ft^3/s (164 m^3/s) May 3, 4, 1952 (includes flow bypassing gage outside of main channel); no flow Sept. 8 to Oct. 22, 1948, Sept. 21-26, 1949, Sept. 21-27, 1959.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,460 ft^3/s (155 m^3/s) June 10, gage height, 9.87 ft (3.008 m); minimum daily, 5.4 ft^3/s (0.15 m^3/s) Oct. 13-18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.5	17	68	115	451	920	358	985	4020	1680	199	36
2	6.3	17	76	120	387	905	349	995	4420	1580	191	35
3	6.0	21	84	120	471	886	336	995	4470	1520	186	34
4	5.7	27	90	120	484	862	320	964	4470	1470	178	33
5	5.7	33	90	125	484	852	314	964	4620	1430	174	33
6	5.7	35	90	125	366	848	314	974	4700	1400	151	33
7	5.7	40	91	125	330	862	328	1000	4760	1400	133	32
8	6.0	43	91	122	336	853	333	1080	4940	1380	128	31
9	5.7	44	94	122	336	815	333	1130	5200	1350	124	30
10	5.5	46	95	125	320	766	330	1210	5300	1300	118	30
11	6.5	46	90	128	309	715	322	1380	5070	1200	108	32
12	5.5	47	83	110	304	673	322	1570	4590	1090	100	34
13	5.4	51	82	230	304	641	325	1820	4070	985	89	77
14	5.4	52	81	450	302	610	333	2280	3780	886	78	46
15	5.4	52	75	1090	307	584	341	2570	3530	802	69	46
16	5.4	55	70	1290	344	554	352	2640	3330	736	64	45
17	5.4	56	70	1320	461	526	375	2690	3150	673	61	46
18	5.4	56	74	1410	498	508	411	2780	2960	622	59	48
19	6.6	57	78	1500	857	501	455	2760	2790	561	56	44
20	7.2	56	86	1300	1010	488	508	2540	2650	522	53	44
21	7.8	55	96	944	1150	474	554	2260	2560	478	52	43
22	8.5	54	110	678	1230	474	626	2050	2490	439	51	43
23	9.6	58	115	602	1340	464	711	1850	2410	408	47	42
24	11	74	113	501	1370	451	797	1750	2330	378	47	42
25	11	79	108	484	1260	435	871	1760	2270	347	45	42
26	11	81	103	458	1120	423	900	1920	2180	320	43	42
27	12	77	100	432	1050	411	881	2120	2100	244	41	42
28	13	73	100	414	980	398	905	2290	2010	255	39	42
29	15	68	108	426	944	387	944	2600	1910	251	38	41
30	16	65	104	526	---	375	964	3070	1800	235	37	42
31	16	---	100	488	---	364	---	3640	---	214	36	---
TOTAL	247.9	1535	2815	16000	19105	19025	15212	58637	104880	26156	2795	1210
MEAN	8.00	51.2	90.8	516	659	614	507	1892	3496	844	90.2	40.3
MAX	16	81	115	1500	1370	920	964	3640	5300	1680	199	77
MIN	5.4	17	68	110	302	364	314	964	1800	214	36	30
AC-FT	492	3040	5580	31740	37890	37740	30170	116300	208000	51880	5540	2400

CAL YR 1979 TOTAL 175661.6 MEAN 481 MAX 1740 MIN 5.4 AC-FT 348400
WTR YR 1980 TOTAL 267617.9 MEAN 731 MAX 5300 MIN 5.4 AC-FT 530800

10325500 REESE RIVER NEAR IONE, NV

LOCATION.--Lat 38°51'00", long 117°28'00", in NW¼ sec.3, T.11 N., R.40 E., Nye County, Hydrologic Unit 16040107, in Toiyabe National Forest, on right bank 2.5 mi (4.0 km) upstream from Indian Creek, 8 mi (13 km) southeast of Ione, and 58 mi (93 km) southwest of Austin.

DRAINAGE AREA.--53 mi^2 (137 km^2), approximately.

PERIOD OF RECORD.--August 1951 to September 1980 (discontinued).

REVISED RECORDS.--WSP 1927: Drainage area.

GAGE.--Water-stage recorder. Concrete control since Oct. 3, 1956. Altitude of gage is 7,100 ft (2,164 m), from topographic map. Prior to Sept. 9, 1955, at site 200 ft (61 m) upstream at datum 2.85 ft (0.869 m) higher.

REMARKS.--Records good except those for winter months, which are fair. No diversion above station. Monthly measurements of specific conductance and water temperature are listed in section titled "supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--29 years, 12.4 ft^3/s (0.351 m^3/s), 8,980 acre-ft/yr (11.1 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 512 ft^3/s (14.5 m^3/s) July 27, 1956, gage height, 4.86 ft (1.481 m), from rating curve extended above 45 ft^3/s (1.27 m^3/s) on basis of slope-area measurement of peak flow; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 66 ft^3/s (1.87 m^3/s) May 22 (0400 hrs), gage height, 1.46 ft (0.445 m), no peaks above base of 130 ft^3/s (3.68 m^3/s); minimum daily, 1.9 ft^3/s (0.054 m^3/s) Dec. 12 (result of freezeup).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	5.0	5.0	2.5	3.0	4.2	5.6	23	43	23	7.5	3.5
2	4.9	5.0	5.3	2.5	3.1	4.7	5.3	23	43	22	6.1	3.2
3	4.7	5.3	4.7	2.5	3.1	4.7	5.8	26	45	20	5.6	3.1
4	4.4	5.6	4.6	2.7	2.8	4.0	6.0	26	46	18	5.3	2.9
5	4.3	4.2	4.6	3.5	3.1	4.5	5.6	27	46	17	5.0	2.8
6	4.1	5.6	4.4	3.1	3.0	4.2	5.2	29	45	16	4.7	2.8
7	4.2	5.6	4.6	2.8	2.1	3.8	5.3	36	44	16	4.6	4.8
8	4.3	5.5	4.6	3.2	2.1	4.0	6.2	35	44	15	4.6	6.3
9	4.4	5.0	4.5	3.0	2.1	4.5	10	35	46	14	4.7	5.1
10	4.4	4.0	3.9	3.0	3.0	5.0	11	37	47	13	4.3	5.1
11	4.3	3.9	2.0	3.2	3.6	5.6	9.7	37	48	13	4.0	5.2
12	4.5	4.0	1.9	4.2	3.6	5.3	10	43	48	13	4.0	4.8
13	4.5	4.1	2.2	4.0	3.1	5.9	12	43	47	12	3.8	4.8
14	4.7	4.3	2.4	4.7	3.3	7.2	16	43	46	13	3.6	4.0
15	4.7	4.5	2.7	3.6	3.0	7.2	16	43	43	11	3.7	3.8
16	4.8	4.7	2.8	3.7	2.8	6.2	18	43	41	10	3.9	3.6
17	4.9	4.8	2.9	3.3	2.8	5.9	20	43	39	9.7	3.7	3.4
18	4.8	4.8	3.0	2.8	6.5	6.8	22	46	38	9.3	3.8	3.1
19	4.9	2.4	3.0	2.0	4.5	5.9	24	50	36	9.0	4.2	3.3
20	5.9	2.4	3.0	2.1	3.8	6.2	26	55	36	8.5	4.1	3.3
21	5.5	2.8	3.2	2.2	3.3	6.5	24	62	34	7.9	3.8	3.4
22	5.2	3.4	3.3	2.6	2.8	5.3	23	64	32	7.6	3.6	3.4
23	5.2	3.8	3.4	2.7	3.3	7.5	20	65	30	7.8	3.6	3.4
24	4.9	4.1	3.5	2.8	3.6	6.5	20	62	29	7.2	3.6	3.3
25	4.8	4.5	4.1	2.8	4.0	5.3	20	59	27	6.8	3.5	3.1
26	4.8	4.0	3.8	2.9	4.2	5.3	22	54	26	6.4	3.6	2.8
27	4.7	3.6	3.2	2.8	5.3	5.9	24	48	24	6.4	3.4	2.7
28	5.0	4.2	2.2	2.7	5.0	4.7	26	46	23	6.6	3.4	2.5
29	5.0	4.7	2.3	2.5	4.0	6.2	25	44	22	7.9	3.4	2.6
30	3.8	5.0	2.4	2.1	---	6.2	24	47	22	7.5	3.4	2.5
31	5.6	---	2.5	2.7	---	5.0	---	46	---	6.9	3.6	---
TOTAL	147.2	130.8	106.0	91.2	99.9	170.2	467.7	1340	1140	361.5	130.1	108.6
MEAN	4.75	4.36	3.42	2.94	3.44	5.49	15.6	43.2	38.0	11.7	4.20	3.62
MAX	5.9	5.6	5.3	4.7	6.5	7.5	26	65	48	23	7.5	6.3
MIN	3.8	2.4	1.9	2.0	2.1	3.8	5.2	23	22	6.4	3.4	2.5
AC-FT	292	259	210	181	198	338	928	2660	2260	717	258	215

CAL YR 1979 TOTAL 7937.3 MEAN 21.7 MAX 168 MIN 1.9 AC-FT 15740
WTR YR 1980 TOTAL 4293.2 MEAN 11.7 MAX 65 MIN 1.9 AC-FT 8520

10327500 HUMBOLDT RIVER AT COMUS, NV

LOCATION.--Lat 40°59'33", long 117°19'00", in SE¼ sec.14, T.36 N., R.41 E., Humboldt County, Hydrologic Unit 16040105, on left bank at Comus siding of Southern Pacific Railroad, 1.0 mi (1.6 km) upstream from Kelly Creek, 9 mi (14 km) northeast of Golconda, and 32 mi (51 km) northwest of Battle Mountain.

DRAINAGE AREA.--12,100 mi^2 (31,300 km^2), approximately.

PERIOD OF RECORD.--October 1894 to December 1909, September 1910 to September 1926, October 1945 to current year. Monthly discharge only for some periods, published in WSP 1314. Published as "near Golconda" prior to October 1917.

REVISED RECORDS.--WSP 1514: 1921-22, 1926. WSP 1314: 1904, 1907-8, 1911-13, 1916-17.

GAGE.--Water-stage recorder. Datum of gage is 4,359.9 ft (1,328.90 m) National Geodetic Vertical Datum of 1929 (from Soil Conservation Service reference mark). Prior to Sept. 25, 1917, nonrecording gages at several sites about 10 mi (16 km) downstream at different datums. Sept. 25, 1917, to June 30, 1923, and May 2[illegible], 1925, to May 31, 1926, nonrecording gages at several sites within 0.5 mi (0.8 km) of present site at different datum.

REMARKS.--Records good. Many diversions above station for irrigation, Humboldt Decree, 206,000 acres (834 km^2); additional acreage not covered by decree. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--66 years, 296 ft^3/s (8.383 m^3/s), 214,500 acre-ft/yr (264 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,860 ft^3/s (166 m^3/s) May 6, 1952, gage height, 11.52 ft (3.511 m); no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,930 ft^3/s (83.0 m^3/s) June 15, gage height, 10.73 ft (3.270 m); minimum, 6.4 ft^3/s (0.18 m^3/s) Oct. 23-28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.2	22	59	68	186	875	433	722	1490	1640	268	42
2	7.2	24	66	78	202	852	426	733	1630	1630	244	42
3	7.2	26	76	84	226	838	422	748	1800	1600	228	40
4	7.2	29	82	93	267	824	412	752	2020	1550	214	40
5	7.2	30	84	98	341	812	394	757	2180	1470	208	37
6	7.1	30	97	102	370	800	383	760	2360	1370	201	36
7	7.2	32	98	109	370	791	378	766	2460	1280	193	36
8	7.1	35	92	112	363	788	385	801	2500	1210	171	38
9	7.1	36	89	122	363	790	394	802	2510	1170	160	36
10	7.2	38	87	130	365	784	392	832	2600	1130	150	35
11	7.4	39	68	111	355	762	388	850	2650	1120	145	36
12	7.3	39	51	109	344	735	382	881	2760	1100	135	36
13	7.3	40	47	179	337	705	382	897	2850	1080	125	35
14	7.2	41	50	190	337	676	382	924	2910	1040	116	42
15	7.4	42	56	416	339	647	388	995	2910	975	106	61
16	7.2	42	61	710	344	625	393	1020	2790	901	95	50
17	7.0	45	64	761	355	603	403	1070	2640	834	87	47
18	7.0	46	71	747	446	584	421	1160	2500	764	81	46
19	7.3	44	75	714	479	563	452	1250	2400	702	79	51
20	7.7	32	81	719	612	554	485	1320	2330	644	74	44
21	6.8	32	86	789	731	546	527	1330	2260	597	70	42
22	6.7	32	82	819	768	534	562	1420	2150	549	67	41
23	6.5	44	82	798	796	531	616	1520	2050	503	64	41
24	6.4	53	79	652	838	524	657	1520	2070	465	59	41
25	6.5	57	81	574	882	515	663	1470	2020	430	57	40
26	6.4	54	78	526	920	503	705	1410	1900	408	55	40
27	6.5	50	76	410	942	490	705	1330	1810	374	53	40
28	6.4	48	74	310	934	477	710	1270	1760	344	49	38
29	11	48	74	260	913	466	710	1290	1710	286	47	37
30	13	50	72	210	---	457	718	1350	1670	314	44	37
31	20	---	65	192	---	443	---	1410	---	286	44	---
TOTAL	240.7	1180	2303	11192	14725	20094	14668	33360	67690	27766	3689	1227
MEAN	7.76	39.3	74.3	361	508	648	489	1076	2256	896	119	40.9
MAX	20	57	98	819	942	875	718	1520	2910	1640	268	61
MIN	6.4	22	47	68	186	443	378	722	1490	286	44	35
AC-FT	477	2340	4570	22200	29210	39860	29090	66170	134300	55070	7320	2430

CAL YR 1979 TOTAL 137056.3 MEAN 375 MAX 1220 MIN 6.4 AC-FT 271900
WTR YR 1980 TOTAL 198134.7 MEAN 541 MAX 2910 MIN 6.4 AC-FT 393000

10328450 NORTH FORK LITTLE HUMBOLDT RIVER NEAR PARADISE VALLEY, NV

LOCATION.--Lat 41°29'30", long 117°07'30", in SW¼ sec.28, T.42 N., R.43 E., Humboldt County, Hydrologic Unit 16040109, on left bank 0.7 mi (1.1 km) upstream from concrete diversion dam, 7.5 mi (12.1 km) north-northeast of Chimney Dam, and 21 mi (34 km) east of Paradise Valley.

DRAINAGE AREA.--210 mi^2 (544 km^2).

PERIOD OF RECORD.--October 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,670 ft (1,420 m), from topographic map.

REMARKS.--Records good except those for period of no gage-height record Nov. 13 to Jan. 23, which are poor. No known diversions above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, unknown, Jan. 13, gage height, 9.50 ft (2.896 m); minimum, 0.14 ft^3/s (0.004 m^3/s) July 19-22, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, unknown, Jan. 13, gage height 9.50 ft (2.896 m); minimum daily, 0.32 ft^3/s (0.009 m^3/s) Aug. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.99	2.7	2.0	1.6	6.4	26	14	66	40	8.1	1.5	.58
2	.99	2.5	2.1	1.6	7.3	25	12	62	44	8.1	1.3	.68
3	.91	2.8	2.2	1.6	8.3	26	12	62	50	7.9	1.1	.73
4	.90	3.3	2.2	1.6	9.1	28	11	64	48	7.1	1.1	.73
5	.90	3.2	2.1	1.6	9.3	29	12	63	44	6.0	.86	.72
6	.90	3.0	2.0	1.6	13	26	15	60	40	5.6	.74	.65
7	.90	2.9	2.0	1.6	18	23	16	57	37	5.0	.64	.71
8	.90	2.8	2.0	1.6	21	21	13	56	33	4.5	.63	.81
9	.90	2.8	2.0	1.6	15	20	15	59	30	4.1	.58	.85
10	.97	2.4	1.8	1.6	12	19	21	62	27	3.8	.53	1.7
11	.99	2.1	1.6	5.0	10	19	22	58	24	3.2	.51	4.5
12	.99	1.8	1.6	80	9.6	19	22	71	24	3.2	.43	4.2
13	.99	1.8	1.6	530	9.4	18	32	68	23	2.9	.40	4.0
14	1.1	1.8	1.8	300	10	18	51	67	23	2.8	.36	3.0
15	1.3	1.8	1.8	70	30	18	82	70	22	2.8	.32	2.7
16	1.4	1.8	2.0	41	35	16	84	64	19	2.7	.34	2.4
17	1.8	1.9	2.0	47	35	17	88	57	17	2.6	.33	2.1
18	2.0	1.7	2.0	35	352	17	107	52	15	2.3	.47	2.0
19	3.2	1.7	2.0	22	177	17	106	48	15	2.1	1.2	1.7
20	4.4	1.6	2.0	18	87	15	115	44	16	2.0	1.2	1.7
21	4.8	1.6	2.0	17	48	16	111	42	13	2.1	1.2	1.7
22	3.8	1.8	2.0	16	38	14	101	40	12	1.9	1.2	1.7
23	3.0	2.1	2.0	15	30	14	106	40	11	1.7	.99	1.9
24	2.4	2.0	2.0	18	29	15	102	40	11	1.4	.92	2.0
25	2.2	1.8	1.8	24	26	13	98	40	11	1.3	.83	2.0
26	2.1	1.6	1.6	22	26	12	86	36	10	1.1	.97	2.0
27	2.0	1.6	1.6	11	35	12	80	34	9.2	.99	.84	1.9
28	2.1	1.6	1.6	6.5	36	12	78	33	8.9	.90	.73	1.9
29	2.3	1.8	1.6	5.8	30	11	75	33	8.7	.99	.71	1.9
30	2.3	2.0	1.6	5.6	---	12	71	34	8.1	.99	.64	1.9
31	2.5	---	1.6	5.8	---	10	---	40	---	1.2	.58	---
TOTAL	56.93	64.3	58.2	1310.7	1172.4	558	1758	1622	693.9	101.37	24.15	55.36
MEAN	1.84	2.14	1.88	42.3	40.4	18.0	58.6	52.3	23.1	3.27	.78	1.85
MAX	4.8	3.3	2.2	530	352	29	115	71	50	8.1	1.5	4.5
MIN	.90	1.6	1.6	1.6	6.4	10	11	33	8.1	.90	.32	.58
AC-FT	113	128	115	2600	2330	1110	3490	3220	1380	201	48	110

CAL YR 1979 TOTAL 4269.82 MEAN 11.7 MAX 69 MIN .21 AC-FT 8470
WTR YR 1980 TOTAL 7475.31 MEAN 20.4 MAX 530 MIN .32 AC-FT 14830

10328475 SOUTH FORK LITTLE HUMBOLDT RIVER NEAR PARADISE VALLEY, NV

LOCATION.--Lat 41°27'00", long 117°06'00", in NE¼ sec.10, T.41 N., R.43 E., Humboldt County, Hydrologic Unit 16040109, on left bank 5.8 mi (9.3 km) northeast of Chimney Dam, and 23 mi (32 km) east of Paradise Valley.

DRAINAGE AREA.--431 mi^2 (1,116 km^2).

PERIOD OF RECORD.--October 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,650 ft (1,420 m), from topographic map.

REMARKS.--Records fair except those for periods of no gage-height record Nov. 7 to Jan 10, which are poor. Diversions for irrigation of 865 acres (3.50 km^2), Little Humboldt Decree, above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 473 ft^3/s (13.4 m^3/s) Jan. 14, 1980, gage height 8.36 ft (2.548 m); no flow many days most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 473 ft^3/s (13.4 m^3/s) Jan. 14, gage height 8.36 ft (2.548 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.49	1.6	1.3	1.0	8.5	24	8.5	48	22	10	.20	.00
2	.62	1.6	1.6	1.0	9.5	23	8.5	44	21	9.1	.16	.00
3	.74	1.6	1.6	1.0	10	23	8.8	41	20	8.5	.13	.00
4	.67	1.6	1.6	1.0	12	31	8.2	43	19	7.9	.10	.00
5	.50	1.6	1.4	1.0	15	38	8.2	45	15	6.9	.11	.00
6	.74	1.6	1.4	1.0	20	31	9.7	39	13	6.2	.11	.00
7	.82	1.4	1.4	1.0	20	26	9.7	38	14	6.5	.15	.00
8	.75	1.4	1.4	1.0	15	24	8.8	40	14	9.1	.16	.00
9	.77	1.3	1.4	1.0	15	21	10	46	13	8.2	.13	.00
10	.76	1.3	1.2	1.0	14	20	16	46	12	6.9	.07	.04
11	.54	1.3	1.0	12	13	20	17	46	12	5.8	.02	.25
12	.72	1.3	1.0	128	13	19	17	56	11	4.7	.02	.05
13	.73	1.2	1.0	230	12	19	21	50	12	4.3	.03	.09
14	.87	1.2	1.1	330	12	18	28	49	13	4.3	.02	.05
15	.86	1.2	1.2	101	17	17	38	49	12	5.8	.01	.03
16	1.2	1.2	1.3	55	30	15	40	47	12	4.7	.02	.02
17	1.7	1.3	1.3	49	22	15	42	44	11	3.9	.01	.02
18	1.5	1.1	1.3	54	114	16	47	41	10	3.5	.00	.01
19	2.8	1.0	1.3	30	125	15	51	39	9.2	2.8	.05	.02
20	4.3	1.0	1.3	23	71	14	51	37	9.6	.25	.02	.02
21	3.2	1.0	1.3	18	49	14	50	33	12	.03	.00	.05
22	2.1	1.2	1.3	17	42	13	47	32	11	.10	.00	.04
23	1.6	1.6	1.3	16	32	12	49	33	9.7	.06	.00	.04
24	1.3	1.4	1.3	19	29	12	51	36	9.1	.03	.00	.05
25	1.1	1.2	1.2	21	26	11	53	29	8.5	.02	.00	.04
26	.97	1.0	1.0	14	24	10	46	26	8.4	.03	.00	.05
27	.97	1.0	1.0	8.0	27	10	43	27	8.3	.03	.00	.05
28	1.3	1.0	1.0	7.0	29	9.4	45	27	8.8	.03	.00	.05
29	1.3	1.1	1.0	6.6	28	8.2	48	26	8.5	.04	.00	.04
30	1.6	1.3	1.0	6.8	---	8.2	48	24	9.1	.06	.00	.06
31	1.6	---	1.0	7.5	---	7.9	---	23	---	.16	.00	---
TOTAL	39.12	38.6	38.5	1162.9	854.0	544.7	928.4	1204	368.2	119.94	1.52	1.07
MEAN	1.26	1.29	1.24	37.5	29.4	17.6	30.9	38.8	12.3	3.87	.049	.036
MAX	4.3	1.6	1.6	330	125	38	53	56	22	10	.20	.25
MIN	.49	1.0	1.0	1.0	8.5	7.9	8.2	23	8.3	.02	.00	.00
AC-FT	78	77	76	2310	1690	1080	1840	2390	730	238	3.0	2.1

CAL YR 1979 TOTAL 2907.38 MEAN 7.97 MAX 77 MIN .01 AC-FT 5770
WTR YR 1980 TOTAL 5300.95 MEAN 14.5 MAX 330 MIN .00 AC-FT 10510

10328500 LITTLE HUMBOLDT RIVER BELOW CHIMNEY DAM, NEAR PARADISE VALLEY, NV

LOCATION.--Lat 41°23'25", long 117°11'00", in NW¼ sec.36, T.41 N., R.42 E., Humboldt County, Hydrologic Unit 16040109, on left bank 20 mi (32 km) east-southeast of Paradise Valley.

DRAINAGE AREA.--780 mi^2 (2,020 km^2), approximately.

PERIOD OF RECORD.--October 1941 to September 1950 (before dam was built), April 1975 to current year. Prior to April 1975, published as "at Chimney dam site."

GAGE.--Water-stage recorder. Altitude of gage is 4,560 ft (1,390 m), from topographic map. Prior to April 1975, at different site and datum.

REMARKS.--Records good,except low flow periods Oct. 1 to Mar. 3, which are poor. Flow regulated by Chimney Dam Reservoir, capacity, 35,000 acre-ft (43.2 hm^3). Diversions for irrigation above station. Monthly measurements of specific conductance and water temperature are listed in section titled "supplemental Water-Quality data for Gaging Stations."

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge since dam was built, 206 ft^3/s (5.83 m^3/s) May 22, 1975, gage height, 4.34 ft (1.323 m); maximum discharge before dam was built, 4,000 ft^3/s (113 m^3/s) about Jan. 22, 1943, gage height, 14.4 ft (4.39 m), from floodmarks, from slope-area measurement of peak flow; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 66 ft^3/s (1.87 m^3/s) May 31, June 1, gage height, 2.56 ft (0.780 m); no flow Oct. 1 to Jan. 10, Jan. 18 to Feb. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	1.4	36	58	66	33	7.5	2.8
2	.00	.00	.00	.00	.00	1.4	34	60	65	33	7.2	2.8
3	.00	.00	.00	.00	.00	1.4	34	61	65	33	6.6	2.8
4	.00	.00	.00	.00	.00	1.4	34	62	65	33	6.4	2.6
5	.00	.00	.00	.00	.50	1.4	34	62	65	33	6.1	2.5
6	.00	.00	.00	.00	.50	1.5	34	62	38	33	5.9	2.5
7	.00	.00	.00	.00	.50	1.5	35	61	14	33	5.9	2.5
8	.00	.00	.00	.00	.50	1.5	35	61	16	33	6.1	2.3
9	.00	.00	.00	.00	.50	1.5	35	61	16	33	5.9	2.3
10	.00	.00	.00	.00	.50	1.4	34	61	16	32	6.1	2.3
11	.00	.00	.00	.50	.50	1.4	34	61	16	28	6.1	2.3
12	.00	.00	.00	1.0	.50	1.4	35	61	17	28	6.4	2.3
13	.00	.00	.00	1.5	.50	1.4	35	61	22	28	6.4	2.3
14	.00	.00	.00	1.8	1.0	1.4	35	61	30	28	6.6	2.3
15	.00	.00	.00	1.5	1.6	1.4	34	61	30	28	6.6	2.3
16	.00	.00	.00	1.0	1.5	1.4	34	62	30	28	6.1	2.3
17	.00	.00	.00	.50	1.5	1.4	42	62	31	27	6.1	2.3
18	.00	.00	.00	.00	1.8	1.3	54	62	32	27	6.1	2.3
19	.00	.00	.00	.00	1.6	1.3	55	62	33	27	5.6	2.3
20	.00	.00	.00	.00	1.5	1.3	54	62	33	28	4.5	2.3
21	.00	.00	.00	.00	1.4	18	55	63	33	28	4.5	2.0
22	.00	.00	.00	.00	1.4	35	55	64	33	28	4.5	1.5
23	.00	.00	.00	.00	1.4	35	55	64	33	28	4.5	1.5
24	.00	.00	.00	.00	1.4	35	55	64	33	29	4.7	1.5
25	.00	.00	.00	.00	1.4	35	55	64	33	30	4.0	1.5
26	.00	.00	.00	.00	1.4	35	54	64	33	31	3.4	1.5
27	.00	.00	.00	.00	1.4	35	54	64	33	31	3.4	1.2
28	.00	.00	.00	.00	1.4	35	54	64	33	31	3.0	1.2
29	.00	.00	.00	.00	1.4	35	54	64	33	32	3.0	1.2
30	.00	.00	.00	.00	---	35	55	65	33	32	3.0	1.2
31	.00	---	.00	.00	---	35	---	66	---	28	3.0	---
TOTAL	.00	.00	.00	7.80	27.60	396.1	1303	1930	1030	934	165.2	62.7
MEAN	.000	.000	.000	.25	.95	12.8	43.4	62.3	34.3	30.1	5.33	2.09
MAX	.00	.00	.00	1.8	1.8	35	55	66	66	33	7.5	2.8
MIN	.00	.00	.00	.00	.00	1.3	34	58	14	27	3.0	1.2
AC-FT	.00	.00	.00	15	55	786	2580	3830	2040	1850	328	124

CAL YR 1979 TOTAL 6381.22 MEAN 17.5 MAX 66 MIN .00 AC-FT 12660
WTR YR 1980 TOTAL 5856.40 MEAN 16.0 MAX 66 MIN .00 AC-FT 11620

10329000 LITTLE HUMBOLDT RIVER NEAR PARADISE VALLEY, NV

LOCATION.--Lat 41°24'55", long 117°22'22", in NW¼SE¼ sec.20, T.41 N., R.41 E., Humboldt County, Hydrologic Unit 16040109, on right bank 3.5 mi (5.6 km) downstream from Bullshead Ranch and 9.5 mi (15.3 km) southeast of Paradise Valley.

DRAINAGE AREA.--1,030 mi^2 (2,670 km^2), approximately.

PERIOD OF RECORD.--October 1921 to June 1928 (fragmentary), October 1943 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 4,470 ft (1,362 m), from river-profile map. Prior to Nov. 21, 1946, water-stage recorder at site 1 mi (1.6 km) downstream at different datum. Nov. 21, 1946, to Aug. 16, 1972, at site 250 ft (76 m) upstream at datum 2.21 ft (0.674 m) higher.

REMARKS.--Records good. Flow regulated by Chimney Dam Reservoir, capacity, 35,000 acre-ft (43.2 hm^3), 10 mi (16 km) upstream, since 1974. Diversions for irrigation of 4,450 acres (18.0 km^2), Little Humboldt Decree, above station. Station is above all diversions in Paradise Valley. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--42 years (1921-23, 1924-27, 1943-1980), 24.7 ft^3/s (0.700 m^3/s), 17,900 acre-ft/yr (22.1 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,380 ft^3/s (67.4 m^3/s) Jan. 21, 1969, gage height, 8.40 ft (2.560 m), minimum, 0.46 ft^3/s (0.013 m^3/s) Aug. 25, 1973, probably result of temporary blockage upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 456 ft^3/s (12.9 m^3/s) Jan. 13, gage height, 4.49 ft (1.369 m); minimum daily, 5.0 ft^3/s (0.14 m^3/s) June 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.3	7.5	7.3	7.2	7.5	8.5	30	47	64	29	17	6.8
2	7.4	7.5	7.4	7.2	7.5	8.9	30	49	66	30	11	6.8
3	6.9	7.7	7.5	7.2	8.2	8.9	31	50	60	31	9.0	6.8
4	7.0	7.8	7.5	7.2	8.2	8.9	31	51	55	28	8.3	6.8
5	6.9	7.6	7.8	7.3	8.2	8.9	31	56	53	26	8.0	6.8
6	7.0	7.5	7.6	7.2	8.2	8.9	31	53	54	26	7.9	6.8
7	7.0	7.6	7.6	7.1	8.2	8.9	31	52	48	26	7.9	7.1
8	7.0	7.5	7.6	7.1	8.2	8.5	31	53	32	26	7.7	7.2
9	6.9	7.5	7.6	7.3	8.2	8.5	32	57	23	25	7.7	7.3
10	7.1	7.5	7.7	7.7	8.2	8.5	31	55	18	25	7.7	7.8
11	7.1	7.5	7.4	7.2	8.5	8.5	31	61	14	24	7.6	7.9
12	7.1	7.5	7.2	9.8	8.5	8.5	31	73	12	23	7.4	7.6
13	7.2	7.5	7.2	58	8.5	8.5	31	67	9.9	22	7.4	7.7
14	7.0	7.5	7.2	30	8.5	8.5	32	63	8.6	22	7.4	7.6
15	7.3	7.6	7.2	12	10	8.5	31	62	7.5	22	7.6	7.6
16	7.2	7.6	7.2	8.7	10	8.6	31	56	6.9	21	7.6	7.4
17	7.3	7.8	7.2	8.8	9.2	8.9	31	54	6.4	21	7.4	7.5
18	7.3	7.8	7.2	9.2	18	8.9	32	53	5.9	21	7.6	7.5
19	7.8	7.6	7.2	8.2	13	8.9	40	53	5.5	21	7.4	7.6
20	7.7	7.5	7.2	7.9	10	9.2	42	52	5.2	20	7.3	7.8
21	7.5	7.5	7.4	7.8	9.6	9.2	42	51	5.0	20	7.3	7.8
22	7.5	7.6	7.5	7.9	9.6	9.7	44	50	9.0	20	7.2	7.7
23	7.5	7.8	7.2	7.8	9.6	13	47	50	24	20	7.3	7.5
24	7.5	8.1	7.3	7.9	9.6	15	52	59	25	20	7.3	7.8
25	7.5	8.4	7.5	7.9	8.9	19	50	54	25	19	7.0	7.8
26	7.5	8.1	7.3	7.8	8.9	22	47	53	24	19	7.0	7.8
27	7.5	7.5	7.2	7.7	8.9	24	46	52	24	19	6.9	7.8
28	7.7	7.5	7.2	7.4	8.9	25	47	51	25	19	6.9	7.7
29	7.5	7.5	7.2	7.2	8.9	27	47	51	26	19	6.8	7.8
30	7.5	7.5	7.2	7.2	---	27	46	52	27	19	6.9	7.8
31	7.6	---	7.2	7.2	---	29	---	77	---	18	6.8	---
TOTAL	226.3	229.1	228.0	316.1	267.7	394.3	1109	1717	768.9	701	244.3	223.9
MEAN	7.30	7.64	7.35	10.2	9.23	12.7	37.0	55.4	25.6	22.6	7.88	7.46
MAX	7.8	8.4	7.8	58	18	29	52	77	66	31	17	7.9
MIN	6.9	7.5	7.2	7.1	7.5	8.5	30	47	5.0	18	6.8	6.8
AC-FT	449	454	452	627	531	782	2200	3410	1530	1390	485	444

CAL YR 1979 TOTAL 7118.4 MEAN 19.5 MAX 64 MIN 5.0 AC-FT 14120
WTR YR 1980 TOTAL 6425.6 MEAN 17.6 MAX 77 MIN 5.0 AC-FT 12750

10329500 MARTIN CREEK NEAR PARADISE VALLEY, NV

LOCATION.--Lat 41°32'00", long 117°25'40", in NW¼SW¼ sec.12, T.42 N., R.40 E., Humboldt County, Hydrologic Unit 16040109, on left bank 0.6 mi (1.0 km) upstream from Humboldt County Recreation Park and 7 mi (11 km) northeast of Paradise Valley.

DRAINAGE AREA.--172 mi^2 (445 km^2).

PERIOD OF RECORD.--October 1921 to current year. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WSP 1514: 1925-27 (M), 1930 (M), 1933 (M), 1938 (M), 1940, 1945.

GAGE.--Water-stage recorder. Altitude of gage is 4,700 ft (1,433 m), from extension of river-profile map. Prior to Oct. 22, 1946, water-stage recorder at several sites within 400 ft (122 m) of present site at different datums.

REMARKS.--Records good except those for period of no gage-height record July 29 to Aug. 27, which are poor. Diversion for irrigation of 40 acres, above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--59 years, 31.9 ft^3/s (0.903 m^3/s), 23,110 acre-ft/yr (28.5 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,000 ft^3/s (255 m^3/s) Jan. 21, 1943, gage height, 11.1 ft (3.38 m), site and datum then in use, on basis of slope-area measurement of peak flow; minimum, 1.8 ft^3/s (0.051 m^3/s) Feb. 6, 1945.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 200 ft^3/s (5.66 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 13	2200	*2580	73.1	6.22	1.896
Feb. 18	0600	1110	31.4	4.34	1.323
Apr. 19	2400	272	7.70	2.36	0.719

Minimum daily discharge, 4.9 ft^3/s (0.14 m^3/s) Aug. 24 to Sept. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.2	8.8	8.5	10	13	56	23	186	125	42	5.9	4.9
2	6.2	8.8	10	9.9	12	58	23	183	123	40	5.6	4.9
3	6.2	8.8	11	9.5	12	63	26	189	125	39	5.6	4.9
4	6.2	8.8	9.9	8.8	13	67	28	191	128	38	5.5	5.1
5	6.2	8.8	9.9	9.9	15	68	36	200	127	35	5.4	5.1
6	6.2	8.8	9.5	9.5	29	58	38	207	125	33	5.4	5.1
7	6.2	8.8	9.5	7.1	19	54	33	203	123	30	5.4	5.1
8	6.2	8.8	9.5	11	12	48	34	193	120	27	5.3	5.1
9	6.2	8.8	9.5	11	11	45	41	196	116	25	5.3	5.3
10	6.2	8.8	9.5	12	11	44	48	182	113	23	5.3	6.4
11	6.0	8.8	6.3	5.7	11	48	45	177	108	21	5.3	8.7
12	6.0	8.5	6.5	320	11	42	59	182	107	19	5.2	7.5
13	6.3	8.5	7.5	1010	14	44	85	175	105	18	5.0	7.0
14	6.5	8.5	8.5	486	13	44	116	180	102	16	5.2	7.0
15	6.9	8.5	8.8	140	96	46	141	192	99	15	5.4	6.9
16	7.1	8.5	8.8	86	68	35	150	194	95	12	5.4	6.4
17	7.1	8.8	8.1	106	114	38	171	192	90	9.9	5.4	6.3
18	7.2	8.8	7.8	67	708	43	197	187	84	9.1	5.4	6.0
19	10	7.5	8.8	52	228	37	210	182	81	8.7	5.1	6.0
20	17	6.8	9.9	38	166	38	238	177	78	8.2	5.0	6.0
21	12	6.5	9.9	44	100	36	236	172	74	7.5	5.0	6.0
22	10	7.1	9.9	40	82	35	218	172	70	7.1	5.0	6.3
23	9.6	9.2	6.0	38	67	35	214	170	66	6.5	5.0	6.4
24	9.5	10	8.1	39	66	33	227	170	63	6.2	4.9	6.4
25	9.5	9.9	11	35	60	31	215	168	58	6.0	4.9	6.4
26	9.5	9.5	8.1	14	71	32	201	161	55	5.7	4.9	6.4
27	9.5	6.0	7.1	12	74	31	204	152	52	5.7	4.9	6.4
28	9.8	6.8	6.3	5.7	70	28	214	145	49	5.4	4.9	6.4
29	9.5	8.1	7.1	6.0	60	32	207	138	47	5.4	4.9	6.4
30	9.1	9.2	8.5	8.6	---	28	201	132	44	6.0	4.9	6.4
31	8.8	---	8.8	10	---	25	---	128	---	6.4	4.9	---
TOTAL	248.9	253.5	268.6	2661.7	2226	1322	3879	5476	2752	536.8	161.3	183.2
MEAN	8.03	8.45	8.66	85.9	76.8	42.6	129	177	91.7	17.3	5.20	6.11
MAX	17	10	11	1010	708	68	238	207	128	42	5.9	8.7
MIN	6.0	6.0	6.0	5.7	11	25	23	128	44	5.4	4.9	4.9
AC-FT	494	503	533	5280	4420	2620	7690	10860	5460	1060	320	363

CAL YR 1979 TOTAL 9996.0 MEAN 27.4 MAX 168 MIN 5.4 AC-FT 19830
WTR YR 1980 TOTAL 19969.0 MEAN 54.6 MAX 1010 MIN 4.9 AC-FT 39610

BEST DOCUMENT AVAILABLE

10333000 HUMBOLDT RIVER NEAR IMLAY, NV

LOCATION.--Lat 40°41'30", long 118°12'10", in SW¼SE¼ sec.25, T.33 N., R.33 E., Pershing County, Hydrologic Unit 16040108, on right bank 1 mi (2 km) upstream from Callahan bridge and 4 mi (6 km) northwest of Imlay.

DRAINAGE AREA.--15,700 mi^2 (40,660 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1935 to December 1941, April 1945 to current year. Monthly discharge only October to December 1941, published in WSP 1314.

REVISED RECORDS.--WSP 1714: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,130 ft (1,259 m) from Geological Survey vertical-angle bench mark. Prior to Apr. 28, 1945, at site 1 mi (2 km) downstream at different datum. Apr. 28, 1945, to Aug. 20, 1947, at present site at datum 1 ft (0.3 m) higher.

REMARKS.--Records fair. Humboldt-Lovelock Irrigation, Light and Power Co.'s feeder canal diverts water at times from river above station to Pitt-Taylor Reservoirs. Flow affected by many diversions above station for irrigation; Humboldt Decree 226,000 acres (915 km^2); additional acreage not covered in decree.

AVERAGE DISCHARGE.--41 years, 211 ft^3/s (5.976 m^3/s), 152,900 acre-ft/yr (189 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,080 ft^3/s (172 m^3/s) May 9, 1952, gage height, 12.15 ft (3.703 m); no flow at times in many years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,820 ft^3/s (51.5 m^3/s) June 22, gage height, 10.31 ft (3.142 m); minimum daily discharge, 18 ft^3/s (0.51 m^3/s) Oct. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	22	58	68	837	720	430	325	1000	1610	409	89
2	22	22	69	70	911	740	426	353	1020	1600	403	87
3	21	23	70	70	900	763	419	345	1020	1600	384	82
4	21	24	69	70	798	763	415	335	1040	1560	371	78
5	20	25	66	72	729	725	417	368	1050	1530	365	75
6	20	26	64	74	435	710	423	385	1080	1510	350	72
7	20	27	67	77	313	704	392	396	1090	1480	329	68
8	19	29	70	80	355	695	386	388	1110	1440	314	63
9	18	31	78	82	399	702	386	394	1150	1410	302	62
10	19	33	74	103	395	695	373	395	1190	1380	286	65
11	19	34	66	100	370	687	367	375	1240	1350	275	65
12	19	36	60	98	362	693	367	370	1300	1310	261	63
13	19	37	58	88	363	687	363	392	1390	1260	246	63
14	19	40	58	112	363	681	367	423	1460	1190	229	63
15	19	41	60	133	355	666	353	495	1560	1120	215	68
16	20	44	62	140	348	640	342	630	1620	1060	202	74
17	19	46	64	187	347	620	338	715	1680	1010	191	76
18	20	47	68	230	355	600	331	710	1720	963	182	78
19	20	46	72	328	353	580	323	718	1760	916	173	78
20	22	44	76	412	358	560	327	740	1800	834	164	78
21	21	44	80	462	393	540	327	740	1820	756	158	75
22	20	52	80	421	433	520	307	755	1810	686	151	72
23	20	54	80	451	484	500	302	765	1790	627	140	72
24	21	54	79	530	545	490	318	785	1770	581	134	72
25	21	56	78	534	592	480	316	810	1750	541	127	70
26	20	58	76	608	606	471	334	840	1720	505	125	70
27	20	52	74	598	634	467	286	870	1700	480	121	70
28	20	44	72	547	672	458	290	905	1680	462	108	68
29	20	37	70	530	697	451	332	921	1660	459	102	68
30	20	50	70	520	---	443	320	946	1640	438	95	66
31	20	---	68	716	---	434	---	976	---	429	93	---
TOTAL	621	1178	2156	8511	14702	18885	10677	18565	43620	32097	7005	2150
MEAN	20.0	39.3	69.5	275	507	609	356	599	1454	1035	226	71.7
MAX	22	58	80	716	911	763	430	976	1820	1610	409	89
MIN	18	22	58	68	313	434	286	325	1000	429	93	62
AC-FT	1230	2340	4280	16880	29160	37460	21180	36820	86520	63660	13890	4260

CAL YR 1979 TOTAL 110917 MEAN 304 MAX 973 MIN 18 AC-FT 220000
WTR YR 1980 TOTAL 160167 MEAN 438 MAX 1820 MIN 18 AC-FT 317700

10333000 HUMBOLDT RIVER NEAR IMLAY, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1949 to November 1950, August 1951 to April 1952, October 1952, February 1960 to current year.
SPECIFIC CONDUCTANCES: October 1975 to current year, monthly.
WATER TEMPERATURES: July 1949 to November 1950, August 1951 to April 1952, October 1952, and February 1960 to June 1961, monthly; November 1961 to October 1962, occasional; November 1962 to October 1968, monthly; November 1968 to September 1969, occasional; October 1969 to current year, monthly.
SEDIMENT DATA: January 1974 to current year, monthly.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 896 micromhos Oct. 20, 1976; minimum, 377 micromhos Feb. 26, 1979.
WATER TEMPERATURES: Maximum, 30.5°C July 26, 1968; minimum, freezing point on some days during winter months of some years.
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 2,200 mg/L Feb. 26, 1979; minimum, 9 mg/L Oct. 24, 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT							
30...	0945	21	802	4.0	46	2.6	--
NOV							
28...	1310	46	--	.5	148	18	--
FEB							
26...	1455	614	392	8.0	2000	3320	96
MAR							
25...	1600	471	547	8.0	360	458	89
APR							
29...	0730	332	409	15.5	645	578	90
MAY							
29...	1055	934	668	16.0	421	1060	79
JUL							
01...	1010	1590	690	21.0	102	438	80
30...	1625	432	--	25.5	354	413	95
AUG							
25...	1745	128	799	21.0	101	35	90
SEP							
30...	1115	64	753	16.0	50	8.6	--

10334500 RYE PATCH RESERVOIR NEAR RYE PATCH, NV

LOCATION.--Lat 40°28'15", long 118°18'30", in NW¼NE¼ sec.18, T.30 N., R.33 E., Pershing County, Hydrologic Unit 16040108, at control works on left end of Rye Patch Dam on Humboldt River, and 2 mi (3 km) northwest of Rye Patch.

DRAINAGE AREA.--16,100 mi² (4,170 km²), approximately.

PERIOD OF RECORD.--February 1936 to current year.

REVISED RECORDS.--WSP 1714: Drainage area.

GAGE.--Staff gage on dam read daily. Datum of gage is National Geodetic Vertical Datum of 1929 (Southern Pacific Railroad datum).

REMARKS.--Reservoir is formed by earthfill, rock-faced dam; storage began Feb. 20, 1936. Capacity, 194,300 acre-ft (240 hm³) between elevations 4,072.5 ft (1,241.30 m), sill of trashrack structure, and 4,136.0 ft (1,260.65 m), top of spillway gates (since June 1976). Dead storage negligible. Elevation of spillway (gate sill) is 4,119 ft (1,255.6 m). Figures given herein represent usable contents, and are based on capacity table No. 2, in use since Oct. 1, 1971. Water is used for irrigation in the Lovelock area.

COOPERATION.--Records of daily elevation furnished by Pershing County Water Conservation District.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 196,900 acre-ft (243 hm³) Apr. 9, 1946, elevation, 4,134.62 ft (1,260.232 m), capacity table then in use; no contents Aug. 7-11, 1955, May 12 to June 13, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 193,100 acre-ft (238 hm³) Aug. 1-4, elevation, 4,135.90 ft (1,260.622 m); minimum, 87,670 acre-ft (108 hm³) Nov. 25-28, elevation, 4,125.70 ft (1,257.513 m).

Capacity table, (elevation, in feet, and contents, in acre-feet)

4,125	82,700	4,132	144,200
4,127	97,300	4,133	157,200
4,129	113,900	4,134	170,800
4,130	123,200	4,135	182,400
4,131	133,200	4,136	194,300

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	99700	89800	88380	91300	106200	128200	161300	162600	171900	183600	193100	177700
2	99700	89800	88380	91300	107000	129200	164000	161300	173100	184800	193100	176600
3	98900	89090	89090	91300	107900	130200	164000	161300	173100	186000	193100	176600
4	98900	89090	89090	91300	107900	132200	165300	161300	174200	186000	193100	176600
5	98100	89090	89090	91300	108700	133200	165300	161300	174200	186000	191900	175400
6	97300	89090	89090	91300	108700	134300	165300	159900	175400	187200	191900	175400
7	96550	89090	89090	91300	110500	136500	165300	159900	175400	187200	191900	175400
8	96550	89090	89090	92050	110500	137600	165300	159900	175400	187200	190700	175400
9	95800	89090	89090	92800	111300	138700	165300	159900	174200	188400	190700	174200
10	95800	89090	89090	92800	111300	139800	165300	159900	174200	188400	190700	174200
11	95050	88380	89090	92800	112200	140900	165300	159900	174200	188400	190700	174200
12	95050	88380	89090	92800	113000	143100	165300	159900	174200	188400	188400	174200
13	95050	88380	89090	93550	113000	143100	165300	159900	174200	188400	187200	174200
14	94300	88380	89090	94300	113900	144200	165300	159900	174200	187200	186000	174200
15	94300	88380	89090	95050	114800	145500	165300	159900	174200	187200	186000	174200
16	94300	88380	89090	95050	115800	146800	165300	159900	174200	188400	184800	174200
17	93550	88380	89090	95050	115800	149400	165300	159900	174200	188400	184800	174200
18	92800	88380	89090	95050	115800	150700	165300	161300	175400	189500	183600	174200
19	92050	88380	89800	95050	117600	150700	164000	161300	176600	189500	182400	174200
20	92050	88380	89800	97300	117600	152000	164000	162600	176600	189500	182400	173100
21	92050	88380	89800	98100	118600	154600	164000	162600	177700	189500	182400	173100
22	92050	88380	89800	99700	119500	154600	164000	164000	178900	190700	181200	173100
23	92050	88380	89800	99700	120400	154600	162600	164000	180100	190700	181200	171900
24	92050	88380	89800	100500	121300	155900	162600	164000	180100	190700	180100	171900
25	91300	87670	90550	101300	112300	157200	162600	164000	181200	191900	180100	171900
26	91300	87670	90550	102900	123200	158600	162600	164000	181200	191900	180100	171900
27	91300	87670	90550	103700	124200	158600	162600	165300	181200	191900	178900	170800
28	90550	87670	90550	105300	125200	159900	162600	166700	182400	191900	178900	170800
29	90550	88380	90550	105300	126200	161300	162600	168000	183600	191900	177700	169400
30	89800	88380	90550	105300	---	161300	162600	169400	183600	191900	177700	169400
31	89800	---	91300	105300	---	161300	---	170800	---	191900	177700	---
MAX	99700	89800	91300	105300	126200	161300	165300	170800	183600	191900	193100	177700
MIN	89800	87670	88380	91300	106200	128200	161300	159900	171900	183600	177700	169400
†	4126.0	4125.8	4126.2	4128.0	4130.3	4133.3	4133.4	4134.0	4135.1	4135.8	4134.6	4133.9
‡	-10700	-1420	+2920	+14000	+20900	+35100	+1300	+8200	+12800	+8300	-14200	-8300

CAL YR 1979 MAX 130200 MIN 45800 ‡ +45500
WTR YR 1980 MAX 193100 MIN 87670 ‡ +68900

† Elevation, in feet, at end of month.

‡ Change in contents in acre feet.

10335000 HUMBOLDT RIVER NEAR RYE PATCH, NV
(National stream-quality accounting network and pesticide network station)

LOCATION.--Lat 40°28'00", long 118°18'20", in SE¼NE¼ sec.18, T.30 N., R.33 E., Pershing County, Hydrologic Unit 16040108, on left bank 1,000 ft (300 m) downstream from Rye Patch Dam and 1.5 mi (2.4 km) northwest of Rye Patch.

DRAINAGE AREA.--16,100 mi^2 (41,700 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1896 to June 1898, June 1899 to December 1909, September 1910 to June 1917, September 1917 to September 1922, September 1924 to September 1930 (fragmentary), October 1930 to September 1932, October 1935 to September 1941, October 1943 to current year. Monthly discharge only for some periods, published in WSP 1314. Prior to October 1935, published as "near Oreana."

REVISED RECORDS.--WSP 1714: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,068.53 ft (1,240.088 m) National Geodetic Vertical Datum of 1929 (levels by Bureau of Reclamation). Prior to Oct. 1, 1935, water-stage recorder or nonrecording gages at several sites about 7 mi (11 km) downstream at different datum. Oct. 1, 1935, to Oct. 13, 1945, water-stage recorder at site 0.5 mi (0.8 km) downstream at different datum.

REMARKS.--Records good except for periods of no gage height record Nov. 16 to Mar. 28, which are poor. Flow completely regulated by Rye Patch Reservoir, capacity 157,200 acre-ft (194 hm^3) since Feb. 20, 1936. Many diversions above station for irrigation: Humboldt Decree, 226,000 acres (915 km^2); additional acreage not covered by decree.

AVERAGE DISCHARGE.--66 years. (1899-1909, 1910-16, 1917-22, 1930-32, 1935-41, 1943-80), 205 ft^3/s (5.806 m^3/s), 148,500 acre-ft/yr (183 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,420 ft^3/s (134 m^3/s) May 11, 12, 1952, gage height, 10.26 ft (3.127 m); no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,380 ft^3/s (39.1 m^3/s) June 25, gage height, 5.71 ft (1.740 m); minimum daily discharge, 0.50 ft^3/s (0.014 m^3/s) Dec. 26 to Jan. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	227	140	1.0	.50	2.7	3.0	88	446	468	1250	222	137
2	268	113	1.0	.50	2.7	3.0	93	477	535	1080	246	150
3	265	55	1.0	.50	2.7	3.0	123	463	656	1090	244	189
4	267	1.0	1.0	.50	2.7	3.0	150	420	755	1090	244	187
5	267	9.7	1.0	.50	2.7	3.0	129	391	981	1100	308	192
6	183	39	.90	.50	2.8	2.5	129	346	974	1100	367	194
7	183	72	.90	.50	2.8	2.5	161	375	974	1110	383	196
8	246	47	.90	.50	2.8	2.5	177	446	966	1110	457	152
9	246	48	.90	2.0	2.8	2.5	177	468	1070	1120	454	125
10	211	63	.90	2.0	2.8	2.5	240	418	1200	1120	391	123
11	190	62	.80	2.0	2.9	2.0	279	410	1210	1130	385	23
12	189	73	.80	2.0	2.9	2.0	279	423	1260	1130	448	1.0
13	176	68	.80	2.0	2.9	2.0	318	423	1280	1140	446	1.0
14	127	62	.80	2.0	2.9	2.0	369	423	1280	980	448	20
15	111	62	.80	2.0	2.9	2.0	401	423	1280	796	446	102
16	115	22	.70	2.3	3.0	1.5	423	448	1280	792	391	103
17	155	1.0	.70	2.3	3.0	1.5	388	474	1280	665	346	105
18	140	1.0	.70	2.3	3.0	1.5	443	477	1280	509	298	146
19	114	1.0	.70	2.3	3.0	1.5	440	480	1280	512	313	137
20	113	1.0	.70	2.3	3.0	1.5	426	480	1280	509	313	159
21	113	1.0	.60	2.3	3.2	1.5	364	483	1290	455	284	137
22	114	1.0	.60	2.3	3.2	1.5	270	483	1290	306	346	111
23	115	1.0	.60	2.3	3.2	1.5	199	532	1290	306	331	143
24	132	1.0	.60	2.3	3.2	1.5	223	529	1290	306	256	177
25	174	1.0	.60	2.3	3.2	1.5	232	477	1330	308	253	232
26	191	1.0	.50	2.6	3.4	1.5	203	474	1350	311	258	284
27	160	1.0	.50	2.6	3.4	1.5	249	471	1360	316	258	281
28	149	1.0	.50	2.6	3.4	27	372	468	1360	321	286	244
29	135	1.0	.50	2.6	3.4	72	448	468	1360	221	240	217
30	132	1.0	.50	2.6	---	76	426	468	1360	177	170	290
31	153	---	.50	2.6	---	40	---	465	---	201	172	---
TOTAL	5361	950.7	23.00	56.60	86.6	270.5	8219	14029	34569	22561	10004	4558.0
MEAN	173	31.7	.74	1.83	2.99	8.73	274	453	1152	728	323	152
MAX	268	140	1.0	2.6	3.4	76	448	532	1360	1250	457	290
MIN	111	1.0	.50	.50	2.7	1.5	88	346	468	177	170	1.0
AC-FT	10630	1890	46	112	172	537	16300	27830	68570	44750	19840	9040

CAL YR 1979 TOTAL 65245.30 MEAN 179 MAX 582 MIN .50 AC-FT 129400
WTR YR 1980 TOTAL 100688.40 MEAN 275 MAX 1360 MIN .50 AC-FT 199700

10335000 HUMBOLDT RIVER NEAR RYE PATCH, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1949 to September 1954, May to August 1955, April 1956 to September 1958, April to August 1960, April to July 1961, May 1962 to current year.

CHEMICAL ANALYSES: December 1951 to September 1954, May to August 1955, April 1956 to September 1958, April to August 1960, April to July 1961, and May 1962 to February 1968, once-daily (composited); March 1968 to September 1969, once-daily (composited) and monthly; October 1969 to current year, monthly.

SPECIFIC CONDUCTANCES: December 1951 to September 1954, May to August 1955, April 1956 to September 1958, April to August 1960, April to July 1961, and May 1962 to current year, once-daily.

BIOLOGICAL DATA: October 1974 to September 1977, monthly; October 1977 to current year, monthly (seasonal).

MICROBIOLOGICAL DATA: October 1974 to current year, monthly.

WATER TEMPERATURES: July 1949 to November 1951, monthly (seasonal); December 1951 to September 1954, May to August 1955, April 1956 to September 1958, April to August 1960, April to July 1961, and May 1962 to current year, once-daily.

SEDIMENT DATA: January 1974, and October 1974 to current year, monthly.

COOPERATION.--Pesticide analyses by U.S. Environmental Protection Agency.

EXTREMES MEASURED FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCES: Maximum, 4,010 micromhos Sept. 2, 1954; minimum, 384 micromhos June 24, 1956.

PHYTOPLANKTON: Maximum, 7,000 cells/mL Oct. 23, 1975; minimum, 8 cells/mL Mar. 26, 1976.

FECAL STREPTOCOCCI: Maximum, 2,400 colonies/100 mL (non-ideal colony count) June 24, 1977; minimum, less than 2 colonies/100 mL Apr. 25, 1975, Oct. 24, 1978, Mar. 26, Sept. 26, 1979.

WATER TEMPERATURES: Maximum, 29.5°C July 25, 1968; minimum, freezing point on several days in Jan., 1980.

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 107 mg/L Nov. 28, 1978; minimum, 14 mg/L Dec. 13, 1974, April 29, 1980.

EXTREMES FOR CURRENT YEAR (MEASUREMENTS AT LEAST ONCE-DAILY).--

SPECIFIC CONDUCTANCES: Maximum, 847 micromhos Sept. 13, 24; minimum, 645 micromhos Oct. 2, 3, 9.

WATER TEMPERATURES: Maximum, 22.5°C July 20, 21; minimum, freezing point on several days in Jan.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)
OCT										
30....	1320	154	707	8.9	12.5	1.2	9.3	K4	K8	170
NOV										
28...	1530	.96	--	8.8	7.0	9.8	12.0	<2	K21	180
DEC										
28...	1320	E.50	--	--	6.0	1.0	11.4	88	K11	160
JAN										
29...	1030	2.6	--	8.0	3.0	15	11.4	<4	K10	160
FEB										
26...	1100	3.4	755	8.5	8.5	11	10.4	K2	K9	160
MAR										
25...	1225	1.5	758	8.8	11.5	5.9	11.6	--	K16	160
APR										
29...	1155	464	758	8.7	11.0	10	9.5	<2	K3	170
MAY										
27...	1345	468	717	8.7	14.0	9.2	9.0	<2	K8	160
JUL										
01...	1250	1360	690	8.6	17.5	13	8.6	<2	K23	160
30...	1120	197	714	8.4	18.0	23	7.9	<2	K8	170
AUG										
25...	1210	257	807	8.6	20.0	15	7.7	K2	K8	170
SEP										
30...	1310	236	807	8.4	16.5	18	8.2	K5	--	180

E: ESTIMATED.

K: NON-IDEAL COLONY COUNT.

10335000 HUMBOLDT RIVER NEAR RYE PATCH, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)
OCT 30...	1320	42	16	91	3.0	13	250	20	238
NOV 28...	1530	44	17	100	3.2	13	260	30	263
DEC 28...	1320	40	15	99	3.4	13	--	--	220
JAN 29...	1030	40	15	100	3.4	12	300	0	246
FEB 26...	1100	39	15	100	3.5	12	270	5	230
MAR 25...	1225	40	15	110	3.8	10	250	18	235
APR 29...	1155	42	15	95	3.2	12	260	10	220
MAY 27...	1345	40	14	91	3.2	13	240	14	220
JUL 01...	1250	40	14	81	2.8	12	250	7	220
30...	1120	43	14	93	3.2	13	280	3	240
AUG 25...	1210	43	15	110	3.7	14	300	9	261
SEP 30...	1310	45	16	110	3.6	15	320	3	267

DATE	TIME	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)
OCT 30...	1320	62	55	.7	44	458	468	190
NOV 28...	1530	64	65	.8	41	478	503	1.24
DEC 28...	1320	64	63	.7	40	469	467	E.63
JAN 29...	1030	63	68	.7	39	473	486	3.32
FEB 26...	1100	65	67	.8	38	467	475	4.25
MAR 25...	1225	63	67	.7	39	479	468	1.94
APR 29...	1155	61	58	.9	33	465	449	582
MAY 27...	1345	62	62	.8	30	451	439	570
JUL 01...	1250	54	57	.8	32	435	423	1600
30...	1120	66	58	.9	35	448	463	238
AUG 25...	1210	73	66	.8	38	532	517	369
SEP 30...	1310	72	70	.7	38	508	527	324

E: ESTIMATED.

10335000 HUMBOLDT RIVER NEAR RYE PATCH, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)
OCT 30...	1320	--	--	.07	.040	.040	--	.63
NOV 28...	1530	--	--	.05	.020	.020	.56	.52
DEC 28...	1320	--	--	.04	.040	.000	.90	.92
JAN 29...	1030	--	--	.04	.040	.040	.68	.57
FEB 26...	1100	--	--	.04	.060	.000	.44	.48
MAR 25...	1225	.00	.000	.00	.010	.010	.49	.52
APR 29...	1155	--	--	.03	.000	.000	1.1	1.1
MAY 27...	1345	.00	.010	.02	.030	.010	1.1	.62
JUL 01...	1250	.00	.000	.00	.000	.000	.64	.59
30...	1120	.07	.060	.10	.020	.010	.87	--
AUG 25...	1210	.00	.020	.00	.030	.010	.93	.78
SEP 30...	1310	.00	.000	.00	.010	.000	.99	.99

DATE	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED (MG/L AS C)
OCT 30...	--	.74	.060	.040	--	--	--	.3
NOV 28...	.65	.59	.010	.040	--	8.1	--	--
DEC 28...	1.0	.96	.070	.030	--	--	--	--
JAN 29...	.78	.65	.060	.040	--	--	7.3	.6
FEB 26...	.54	.52	.040	.010	--	5.2	--	--
MAR 25...	.50	.53	.060	.050	--	5.3	--	--
APR 29...	1.1	1.1	.060	.040	--	--	8.8	.1
MAY 27...	1.1	.65	.180	.090	--	5.7	--	--
JUL 01...	.64	.59	.080	.050	--	9.1	--	--
30...	1.0	--	.110	.080	--	--	15	.2
AUG 25...	.96	.79	.100	.070	--	9.1	--	--
SEP 30...	1.0	.99	.090	.060	.040	13	--	--

10335000 HUMBOLDT RIVER NEAR RYE PATCH, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, TOTAL (UG/L AS BA)	BARIUM, DIS-SOLVED (UG/L AS BA)	CADMIUM TOTAL (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, TOTAL (UG/L AS CO)	COBALT, DIS-SOLVED (UG/L AS CO)
OCT											
30...	1320	27	27	200	40	0	<1	0	0	0	<3
JAN											
29...	1030	34	34	200	50	0	<1	--	10	1	<3
APR											
29...	1155	26	24	300	30	1	<1	0	0	0	<3
JUL											
30...	1120	28	28	100	40	0	<1	20	20	2	<3

DATE	TIME	COPPER, TOTAL (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)
OCT							
30...	1320	4	4	590	--	3	0
JAN							
29...	1030	21	1	620	20	--	3
APR							
29...	1155	6	2	470	20	0	2
JUL							
30...	1120	7	3	1000	<10	2	0

DATE	TIME	MANGA-NESE, TOTAL (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	NICKEL, TOTAL (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)
OCT							
30...	1320	20	20	.1	.1	3	0
JAN							
29...	1030	20	10	.1	.0	2	1
APR							
29...	1155	10	2	.1	.0	3	6
JUL							
30...	1120	30	1	.1	.0	3	0

DATE	TIME	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, TOTAL (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT							
30...	1320	0	1	0	0	30	10
DEC							
28...	1320	--	--	0	--	--	--
JAN							
29...	1030	1	1	0	0	20	<3
MAR							
25...	1225	--	--	0	--	--	--
APR							
29...	1155	1	1	0	0	20	<3
JUL							
01...	1250	--	--	0	--	--	--
30...	1120	1	1	0	0	10	<3
SEP							
30...	1310	--	--	0	--	--	--

10335000 HUMBOLDT RIVER NEAR RYE PATCH, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	AROCLOR TOTAL 1254 PCB SERIES (UG/L)	PCB TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR-DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT TOTAL (UG/L)	DI-AZINON, TOTAL (UG/L)
NOV 28...	1530	--	ND	ND	ND	ND	ND	ND	ND
FEB 26...	1100	--	ND	ND	ND	ND	ND	ND	ND
MAY 27...	1345	0.0	--	ND	ND	ND	ND	ND	ND
JUL 30...	1120	--	--	ND	ND	ND	ND	ND	ND

DATE	DI-ELDRIN TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA-CHLOR, TOTAL (UG/L)	HEPTA-CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA-THION, TOTAL (UG/L)	METH-OXY-CHLOR, TOTAL (UG/L)	METHYL PARA-THION, TOTAL (UG/L)
NOV 28...	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB 26...	ND	ND	ND	ND	ND	ND	ND	ND	ND
MAY 27...	ND	ND	ND	ND	ND	ND	ND	ND	ND
JUL 30...	ND	ND	ND	ND	ND	ND	ND	ND	ND

DATE	METHYL TRI-THION, TOTAL (UG/L)	PARA-THION, TOTAL (UG/L)	TOX-APHENE, TOTAL (UG/L)	TOTAL TRI-THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
NOV 28...	ND	ND	ND	ND	ND	ND	ND
FEB 26...	ND	ND	ND	ND	--	--	--
MAY 27...	ND	ND	ND	ND	--	--	--
JUL 30...	ND	ND	ND	ND	--	--	--

ND: NONE DETECTED.

10335000 HUMBOLDT RIVER NEAR RYE PATCH, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE	NOV 28,79		MAR 25,80		MAY 27,80		JUL 1,80	
TIME	1530		1225		1345		1250	
TOTAL CELLS/ML	1300		2700		39		64	
DIVERSITY: DIVISION	1.0		0.9		0.9		1.5	
.CLASS	1.0		0.9		0.9		1.5	
..ORDER	1.4		0.9		0.9		1.9	
...FAMILY	2.6		1.7		0.9		1.9	
....GENUS	2.9		1.8		0.9		1.9	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...CHARACIACEAE								
....SCHROEDERIA	76	6	41	2	--	-	--	-
...OOCYSTACEAE								
....ANKISTRODESMUS	32	3	55	2	--	-	--	-
....CHLORELLA	540#	43	--	-	--	-	--	-
....DICTYOSPHAERIUM	--	-	--	-	--	-	--	-
....OOCYSTIS	--	-	82	3	26#	67	13#	20
..TETRASPORALES								
...PALMELLACEAE								
....SPHAEROCYSTIS	--	-	--	-	--	-	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	-	27	1	--	-	--	-
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	54	4	--	-	--	-	13#	20
....MELOSIRA	120	9	--	-	--	-	--	-
..PENNALES								
...ACHNANTHACEAE								
....COCCONEIS	11	1	--	-	--	-	--	-
...CYMBELLACEAE								
....AMPHORA	--	-	14	1	--	-	--	-
....CYMBELLA	22	2	14	1	--	-	--	-
....EPITHEMIA	--	-	14	1	--	-	--	-
...DIATOMACEAE								
....DIATOMA	43	3	27	1	--	-	--	-
...FRAGILARIACEAE								
....ASTERIONELLA	65	5	1900#	69	--	-	--	-
....SYNEDRA	11	1	14	1	--	-	--	-
...GOMPHONEMATACEAE								
....GOMPHONEMA	65	5	14	1	--	-	--	-
...NAVICULACEAE								
....NAVICULA	97	8	140	5	--	-	--	-
...NITZSCHIACEAE								
....NITZSCHIA	120	9	110	4	--	-	13#	20
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROOCOCCALES								
...CHROOCOCCACEAE								
....ANACYSTIS	--	-	--	-	13#	33	26#	40
..HORMOGONALES								
...OSCILLATORIACEAE								
....OSCILLATORIA	--	-	270	10	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....EUGLENA	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

10335000 HUMBOLDT RIVER NEAR RYE PATCH, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE	JUL 30,80	AUG 25,80	SEP 30,80
TIME	1120	1210	1310
TOTAL CELLS/ML	390	540	1900
DIVERSITY: DIVISION	0.6	0.0	1.1
.CLASS	0.6	0.0	1.1
..ORDER	0.8	0.9	1.5
...FAMILY	0.8	1.1	1.6
....GENUS	0.8	1.2	1.6

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)						
.CHLOROPHYCEAE						
..CHLOROCOCCALES						
...CHARACIACEAE						
....SCHROEDERIA	--	-	52	10	39	2
...OOCYSTACEAE						
....ANKISTRODESMUS	--	-	39	7	--	-
....CHLORELLA	--	-	--	-	--	-
....DICTYOSPHAERIUM	--	-	26	5	--	-
....OOCYSTIS	--	-	--	-	--	-
..TETRASPORALES						
...PALMELLACEAE						
....SPHAEROCYSTIS	--	-	410#	76	--	-
..VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS	--	-	13	2	--	-
CHRYSOPHYTA						
.BACILLARIOPHYCEAE						
..CENTRALES						
...COSCINODISCACEAE						
....CYCLOTELLA	--	-	--	-	--	-
....MELOSIRA	--	-	--	-	230	12
..PENNALES						
...ACHNANTHACEAE						
....COCCONEIS	26	7	--	-	13	1
...CYMBELLACEAE						
....AMPHORA	--	-	--	-	--	-
....CYMBELLA	--	-	--	-	--	-
....EPITHEMIA	--	-	--	-	--	-
...DIATOMACEAE						
....DIATOMA	--	-	--	-	--	-
...FRAGILARIACEAE						
....ASTERIONELLA	--	-	--	-	710#	37
....SYNEDRA	--	-	--	-	--	-
...GOMPHONEMATACEAE						
....GOMPHONEMA	--	-	--	-	--	-
...NAVICULACEAE						
....NAVICULA	--	-	--	-	--	-
...NITZSCHIACEAE						
....NITZSCHIA	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
.CYANOPHYCEAE						
..CHROOCOCCALES						
...CHROOCOCCACEAE						
....ANACYSTIS	340#	87	--	-	900#	48
..HORMOGONALES						
...OSCILLATORIACEAE						
....OSCILLATORIA	13	3	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)						
.EUGLENOPHYCEAE						
..EUGLENALES						
...EUGLENACEAE						
....EUGLENA	13	3	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

PERIPHYTON

RETRIEVAL DATE	LENGTH OF EXPOSURE POLYETHYLENE STRIP (DAYS)	BIOMASS (G/M^2)		CHLOROPHYLL A (MG/M^2)	CHLOROPHYLL B (MG/M^2)
		DRY WEIGHT	ASH WEIGHT		
Dec 28	30	1.26	1.10	.010	.000
Feb 26	28	1.97	1.65	1.56	.330
May 27	29	28.7	22.3	.270	.180

10335000 HUMBOLDT RIVER NEAR RYE PATCH, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT					
30...	1320	154	38	16	70
DEC					
28...	1320	E.50	55	E.07	--
JAN					
29...	1030	2.6	64	.45	--
FEB					
26...	1100	3.4	19	.17	--
MAR					
25...	1225	1.5	22	.09	--
APR					
29...	1155	464	14	18	--
MAY					
27...	1345	468	27	34	--
JUL					
01...	1250	1360	17	62	--
30...	1120	197	25	13	--
AUG					
25...	1210	257	16	11	--

E: ESTIMATED.

10335000 HUMBOLDT RIVER NEAR RYE PATCH, NV--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	666	698	752	752	747	778	754	722	702	679	761	833
2	645	700	752	752	744	784	754	717	702	679	730	820
3	645	710	752	755	744	772	754	722	702	679	751	820
4	666	750	752	755	785	776	754	717	702	679	761	840
5	666	747	752	750	734	775	754	722	702	679	---	833
6	672	710	752	766	732	770	754	720	702	679	796	833
7	666	710	752	755	752	778	754	720	702	703	796	840
8	666	710	747	755	739	778	754	717	702	703	806	840
9	645	710	745	752	742	778	754	720	702	703	806	840
10	666	710	752	747	734	768	754	715	702	703	817	840
11	666	710	752	760	732	778	754	715	702	728	817	833
12	666	710	747	752	727	778	754	715	702	728	817	---
13	666	710	745	744	737	778	754	715	702	728	817	847
14	666	710	745	744	734	781	754	715	702	741	817	840
15	666	710	750	747	737	773	754	717	702	741	828	840
16	666	710	750	750	727	773	754	715	702	755	828	840
17	666	737	750	752	732	781	754	715	702	755	828	833
18	666	737	745	752	729	795	754	715	702	755	828	833
19	666	747	745	750	734	784	754	717	679	755	828	833
20	666	742	739	755	734	786	754	712	679	769	828	833
21	666	745	750	755	732	798	754	715	679	769	828	840
22	666	745	752	---	732	782	754	717	679	703	828	840
23	666	747	747	752	737	798	754	712	679	703	828	840
24	666	739	737	752	737	797	754	715	679	703	838	847
25	666	753	732	752	744	791	754	710	679	703	838	840
26	666	763	750	752	744	795	754	712	679	703	838	840
27	666	755	752	772	739	804	754	712	679	703	838	840
28	666	750	745	755	750	802	754	710	679	715	838	840
29	666	753	747	750	750	756	754	710	679	728	838	840
30	666	750	752	760	---	755	728	715	---	728	838	840
31	666	---	745	752	---	759	---	715	---	728	838	---
MEAN	664	729	748	753	739	781	753	716	693	717	815	837

WTR YR 1980 MEAN 745 MAX 847 MIN 645

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.0	10.0	2.5	3.0	2.0	5.0	6.0	13.0	15.0	17.0	17.0	19.5
2	16.5	10.0	5.0	3.0	3.0	5.0	6.5	14.0	14.5	17.0	18.0	19.5
3	16.5	10.0	5.0	3.0	4.0	5.0	6.5	14.0	14.0	18.0	18.5	19.0
4	16.0	10.0	5.0	3.0	2.0	6.5	6.0	13.5	14.0	18.5	18.5	19.0
5	16.0	9.0	4.0	3.0	2.5	8.0	6.0	13.0	14.0	17.0	---	20.0
6	16.0	9.0	3.0	3.0	4.0	6.0	6.0	13.0	14.0	18.0	19.5	19.5
7	16.0	9.5	3.5	3.0	3.0	6.0	6.0	14.0	14.0	18.0	19.5	19.0
8	16.0	9.5	3.5	4.0	2.5	6.0	6.5	14.0	14.0	18.5	20.0	18.5
9	16.0	9.0	3.5	4.0	2.0	5.0	7.0	14.0	14.0	18.5	20.0	19.0
10	16.0	8.0	5.0	2.0	2.0	4.0	7.0	14.0	14.5	18.5	20.0	18.5
11	16.0	8.0	2.0	1.0	2.0	5.0	7.5	14.0	14.5	19.5	20.5	18.5
12	15.5	8.0	2.0	4.5	2.5	4.0	8.0	14.0	14.5	19.5	20.5	---
13	15.5	8.0	2.0	5.0	3.0	5.0	8.0	14.0	14.5	20.0	20.5	17.0
14	15.0	7.5	2.0	6.0	5.0	5.5	8.0	14.0	15.0	20.0	20.0	17.5
15	15.0	7.5	2.0	5.0	5.0	4.5	8.0	14.0	15.0	20.0	21.0	8.0
16	14.5	7.5	2.0	5.0	4.0	4.0	8.0	14.0	15.0	21.0	21.0	18.0
17	15.0	7.0	2.0	1.5	4.5	7.0	8.0	14.0	16.0	21.0	21.0	18.0
18	15.0	6.5	1.0	1.0	4.5	7.0	8.0	14.0	16.5	22.0	21.5	18.0
19	14.5	5.0	2.0	.0	4.5	5.5	8.5	15.0	16.5	22.0	20.5	18.0
20	14.0	4.0	2.0	.0	4.5	5.0	8.5	15.0	17.0	22.5	21.0	18.0
21	13.0	3.5	4.0	.0	5.0	7.0	8.5	14.5	17.0	22.5	21.0	18.0
22	13.0	4.0	4.0	---	5.0	6.0	9.0	14.5	16.0	17.0	21.0	18.0
23	13.0	4.5	1.0	2.0	4.5	5.0	9.0	14.5	15.5	17.0	21.0	17.0
24	12.5	6.0	2.0	2.5	4.5	5.5	9.0	15.0	16.5	17.0	20.5	17.5
25	12.5	5.0	4.0	2.5	4.5	5.0	10.0	15.0	16.0	17.0	20.5	17.5
26	12.0	4.0	3.0	.5	5.0	5.5	10.5	15.0	16.0	17.0	20.5	17.5
27	12.0	3.0	2.0	3.0	5.0	6.0	10.5	15.0	16.5	17.5	20.0	17.5
28	12.0	2.5	2.0	.0	5.0	6.0	10.5	14.5	18.0	17.5	20.0	17.0
29	11.5	2.5	2.0	.0	5.0	7.0	10.5	14.5	18.0	18.0	20.0	17.0
30	11.0	2.5	1.0	.0	---	7.0	12.0	14.0	17.5	18.0	19.5	17.0
31	10.5	---	3.0	2.0	---	6.0	---	14.0	---	18.0	19.5	---
MEAN	14.5	6.5	3.0	2.5	4.0	5.5	8.0	14.0	15.5	19.0	20.0	18.0

WTR YR 1980 MEAN 11.0 MAX 22.5 MIN .0

10336500 PYRAMID LAKE NEAR NIXON, NV

LOCATION.--Lat 39°59'05", long 119°30'00", in NE¼NW¼ sec.3, T.24 N., R.22 E., Washoe County, Hydrologic Unit 16050103, in Pyramid Lake Indian Reservation, 0.25 mi (0.40 km) north of the Pyramid, 1.6 mi (2.6 km) northeast of Anaho Island, and 13 mi (21 km) northwest of Nixon.

DRAINAGE AREA.--2,720 mi^2 (7,040 km^2).

PERIOD OF RECORD.--1867-1925 (occasional elevations in some years), June 1926 to current year (occasional elevations in each year).

REVISED RECORDS.--WSP 880: 1934-38 (bench mark). WSP 1090: 1926 (M). WDR NV-67-1: 1966.

GAGE.--Nonrecording gage. Datum of gage is 3,940.29 ft (1,201,000 m) National Geodetic Vertical Datum of 1929 (U.S. Coast and Geodetic Survey Bench Mark H-21), supplementary adjustment of 1956. Prior to January 1934, elevations were determined from Bench Mark No. 1 of General Land Office using elevation of 3,882.26 ft (1,183.313 m), adjustment of 1912; to convert these records to present datum, add 0.81 ft (0.247 m). January 1934 to September 1955, elevations were determined from Bench Mark H-21 using elevation of 3,940.04 ft (1,200.924 m), datum of 1929; to convert these records to present datum, add 0.25 ft (0.076 m). October 1955 to August 1968, nonrecording gages along southwest lake shore at present datum.

REMARKS.--Truckee Canal diverts water out of the basin to Lahontan Reservoir. Elevations are given to the nearest 0.1 ft and contents to 4 significant figures in order to reflect trends of change. Any single observation, however, may be affected by wind and seiche movements on the lake surface. Elevations published for 1867 and 1871 may have been 9 ft (2.7 m) lower because of uncertainty of date of photograph on which they were based.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 3,884.9 ft (1,184.12 m) in 1871 (see remarks paragraph); minimum observed, 3,783.9 ft (1,153.33 m) Feb. 6, Mar. 6, 1967.

MONTHEND ELEVATIONS AND CONTENTS, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sep. 30	3,788.5	20,460,000	--
Oct. 31	3,788.6	20,470,000	+10,000
Nov. 30	3,787.6	20,370,000	-100,000
Dec. 31	3,787.8	20,390,000	+20,000
CAL YR 1979	--	--	-240,000
Jan. 31	3,788.4	20,450,000	+60,000
Feb. 29	3,788.7	20,480,000	+30,000
Mar. 31	3,789.0	20,510,000	+30,000
Apr. 30	3,789.1	20,520,000	+10,000
May 31	3,789.2	20,530,000	+10,000
June 30	3,790.4	20,660,000	+130,000
July 31	3,790.2	20,640,000	-20,000
Aug. 31	3,789.5	20,570,000	-70,000
Sep. 30	3,789.2	20,530,000	-40,000
WTR YR 1979-80	--	--	+70,000

NOTE.--Monthend elevations are interpolated from readings made during the month.

10336600 UPPER TRUCKEE RIVER NEAR MEYERS, CA

LOCATION.--Lat 38°50'35", long 120°01'25", in NE¼SE¼ sec.31, T.12 N., R.18 E., El Dorado County, Hydrologic Unit 16050101, on left bank 0.4 mi (0.6 km) upstream from mouth of Echo Lake outlet, 1.1 mi (1.8 km) southwest of Meyers, and 2.5 mi (4.0 km) upstream from Angora Creek.

DRAINAGE AREA.--33.1 mi^2 (85.7 km^2), revised.

PERIOD OF RECORD.--October 1960 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,325 ft (1,928 m), from topographic map.

REMARKS.--Records good. No regulation. Some small diversions above station for domestic use.

AVERAGE DISCHARGE.--20 years, 63.2 ft^3/s (1.790 m^3/s), 45,790 acre-ft/yr (56.5 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,550 ft^3/s (72.2 m^3/s) Feb. 1, 1963, gage height, 12.41 ft (3.783 m); minimum daily, 1.5 ft^3/s (0.042 m^3/s) Aug. 31 to Sept. 7, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 200 ft^3/s (5.66 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 13	2115	*1,600	45.3	10.38	3.164	June 1	2345	252	7.14	6.38	1.945
Apr. 19	2230	264	7.48	6.43	1.960	June 10	2230	384	10.8	7.10	2.164
May 4	2045	497	14.1	7.70	2.347	June 17	2330	448	12.7	7.42	2.262
May 21	2115	554	15.7	7.99	2.435	July 3	0230	349	9.88	6.93	2.112

Minimum daily, 3.1 ft^3/s (0.088 m^3/s) Oct. 6-10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	7.1	12	25	44	44	39	273	213	302	41	13
2	3.3	6.9	12	17	42	43	37	307	225	288	37	13
3	3.2	7.5	11	15	41	42	36	352	191	291	33	12
4	3.2	8.0	11	13	40	41	36	399	195	228	31	12
5	3.2	7.6	11	13	40	42	38	390	162	193	29	12
6	3.1	7.6	10	12	43	40	36	400	149	171	28	11
7	3.1	7.7	11	12	42	38	35	372	172	157	26	11
8	3.1	7.7	10	12	39	37	36	352	236	144	25	12
9	3.1	7.4	10	13	38	37	43	328	287	133	24	11
10	3.1	7.1	11	15	37	38	52	245	310	130	23	11
11	3.2	7.2	9.0	22	36	38	56	195	308	125	22	10
12	3.2	7.0	9.2	271	35	36	58	171	281	121	22	10
13	3.3	6.9	9.5	850	34	36	80	162	245	116	20	9.8
14	3.4	6.9	9.1	530	36	36	109	162	225	112	19	9.6
15	3.4	7.0	9.0	216	39	35	115	177	270	108	19	9.4
16	3.5	7.0	9.1	160	40	34	129	220	311	102	20	9.2
17	3.4	8.6	8.9	122	66	35	159	263	341	100	19	9.0
18	3.8	8.5	8.5	100	152	36	181	297	355	94	20	8.8
19	13	7.3	8.3	84	98	35	202	369	346	83	19	8.6
20	17	7.3	8.3	76	75	35	208	424	343	78	18	8.4
21	9.8	7.3	8.5	71	62	35	174	455	323	78	17	8.3
22	8.6	7.9	8.7	66	58	34	134	449	296	73	17	8.2
23	8.2	8.8	9.0	63	52	34	116	360	270	69	18	8.1
24	8.7	13	9.3	61	49	34	122	242	263	64	19	8.0
25	12	37	9.3	59	46	33	161	194	273	58	18	7.9
26	14	27	9.2	57	46	32	198	170	265	53	17	7.8
27	10	17	9.0	54	49	32	231	163	236	51	17	7.7
28	9.0	15	8.9	53	50	32	259	166	241	49	16	7.7
29	8.3	13	8.7	51	46	35	292	181	272	47	15	7.6
30	7.6	13	13	47	---	40	292	211	284	45	14	7.6
31	7.7	---	22	46	---	40	---	214	---	42	14	---
TOTAL	192.8	307.5	313.5	3206	1475	1139	3664	8663	7888	3705	677	289.7
MEAN	6.22	10.3	10.1	103	50.9	36.7	122	279	263	120	21.8	9.66
MAX	17	37	22	850	152	44	292	455	355	302	41	13
MIN	3.1	6.9	8.3	12	34	32	35	162	149	42	14	7.6
AC-FT	382	610	622	6360	2930	2260	7270	17180	15650	7350	1340	575

CAL YR 1979 TOTAL 20272.0 MEAN 55.5 MAX 428 MIN 3.1 AC-FT 40210
WTR YR 1980 TOTAL 31520.5 MEAN 86.1 MAX 850 MIN 3.1 AC-FT 62520

10336610 UPPER TRUCKEE RIVER AT SOUTH LAKE TAHOE, CA

LOCATION.--Lat 38°55'22", long 119°59'23", in NW¼SE¼ sec.4, T.12 N., R.18 E., El Dorado County, Hydrologic Unit 16050101, on right bank on downstream side of U.S. Highway 50 bridge, 1.0 mi (1.6 km) northeast of South Lake Tahoe Post Office, and 1.4 mi (2.3 km) upstream from Lake Tahoe.

DRAINAGE AREA.--54.9 mi^2 (142.2 km^2), revised.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1971 to September 1974, October 1976 to June 1977, October 1977 to June 1978, March to September 1980.

GAGE.--Water-stage recorder. Altitude of gage is 6,240 ft (1,902 m) from topographic map.

REMARKS.--Records good. Two small dams may cause slight regulation at times. Some small diversions above station for domestic use.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,070 ft^3/s (30.3 m^3/s) Nov. 12, 1973, gage height, 5.94 ft (1.811 m); minimum daily, 1.9 ft^3/s (0.05 m^3/s) Oct. 11, 12, 1977.

EXTREMES FOR PERIOD.--Maximum discharge, 697 ft^3/s (19.7 m^3/s) May 22, gage height, 4.78 ft (1.457 m); minimum daily, 10 ft^3/s (0.28 m^3/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						100	88	410	271	372	61	14
2						96	84	405	304	389	56	15
3						94	83	470	262	408	50	15
4						93	84	520	243	355	45	14
5						94	84	550	221	293	41	14
6						92	85	570	204	257	37	14
7						87	82	555	207	223	33	14
8						84	85	525	245	194	31	19
9						85	95	470	304	181	29	19
10						86	110	417	341	172	27	17
11						88	122	335	370	157	26	16
12						85	132	290	362	169	23	17
13						83	145	274	334	172	22	15
14						82	157	267	296	161	22	14
15						81	172	260	316	154	21	14
16						78	190	292	343	149	22	14
17						79	215	335	389	149	21	13
18						81	255	367	428	142	22	13
19						81	280	431	431	128	21	13
20						80	305	529	448	119	20	13
21						79	295	588	446	117	20	13
22						79	230	611	413	109	20	12
23						79	210	563	374	103	21	12
24						77	205	398	355	96	22	12
25						75	222	318	358	88	21	12
26						74	265	274	360	82	20	11
27						74	305	253	328	77	18	11
28						76	345	246	311	75	16	11
29						79	390	251	347	72	15	11
30						83	435	277	362	69	15	10
31						89	---	265	---	65	15	---
TOTAL						2593	5755	12316	9973	5297	833	412
MEAN						83.6	192	397	332	171	26.9	13.7
MAX						100	435	611	448	408	61	19
MIN						74	82	246	204	65	15	10
AC-FT						5140	11420	24430	19780	10510	1650	817

10336610 UPPER TRUCKEE RIVER AT SOUTH LAKE TAHOE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1972-74, 1978, 1980.
WATER TEMPERATURES: Water years 1972-74, 1978, March to September 1980.
SEDIMENT RECORDS: Water years 1972-74, 1978, March to September 1980.

PERIOD OF DAILY RECORD.--
SEDIMENT RECORDS; October 1971 to June 1974, October 1977 to June 1978, March to September 1980.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 312 mg/L Dec. 29, 1973; minimum daily mean, 0 mg/L on several days during October 1973.
SEDIMENT DISCHARGE: Maximum daily, 339 tons (308 metric tons) Dec. 29, 1973; minimum daily, 0 ton (0 metric ton) on several days during October 1973.

EXTREMES FOR PERIOD.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 100 mg/L Apr. 30, May 3; minimum daily mean, 1 mg/L Apr. 1-5.
SEDIMENT DISCHARGE: Maximum daily, 127 tons (115 metric tons) May 3; minimum daily, 0.06 ton (0.05 metric ton) Sept. 22-25.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						---	---	5.0	8.5	---	---	---
2						---	---	9.0	5.5	10.0	---	---
3						---	---	6.0	10.0	---	---	---
4						---	5.5	4.5	7.5	---	---	---
5						---	---	5.5	7.0	---	---	---
6						---	---	5.0	---	9.5	---	---
7						---	---	4.5	---	---	14.0	---
8						---	9.0	---	---	---	---	13.0
9						---	---	4.5	8.5	---	---	---
10						.5	---	4.5	6.0	16.0	---	---
11						---	6.5	4.0	5.5	---	---	---
12						---	---	5.0	5.0	---	---	---
13						---	---	5.0	5.0	---	---	---
14						3.5	7.0	4.5	---	17.0	15.5	10.0
15						---	---	4.0	12.0	---	---	---
16						---	---	10.0	12.5	---	---	---
17						---	8.0	5.0	13.0	---	---	---
18						---	5.0	10.5	13.0	---	---	---
19						---	4.0	6.5	6.5	---	---	---
20						---	5.5	---	8.0	---	---	---
21						---	2.0	9.5	---	---	---	---
22						---	4.0	4.0	---	---	---	---
23						---	2.5	5.0	9.0	---	15.5	15.0
24						---	---	5.5	12.0	19.5	---	---
25						1.5	4.0	4.0	12.5	---	---	---
26						---	6.0	---	13.0	---	14.0	---
27						---	6.0	5.5	10.0	---	---	---
28						---	5.0	6.5	9.0	---	---	---
29						---	5.0	7.0	14.0	---	---	---
30						---	5.0	9.0	10.5	---	14.0	---
31						---	---	10.0	---	---	---	---
MEAN						2.0	5.5	6.0	9.5	14.5	14.5	12.5

10336610 UPPER TRUCKEE RIVER AT SOUTH LAKE TAHOE, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JANUARY			FEBRUARY			MARCH	
1							100	6	1.6
2							96	5	1.3
3							94	5	1.3
4							93	4	1.0
5							94	4	1.0
6							92	4	.99
7							87	4	.94
8							84	4	.91
9							85	4	.92
10							86	4	.93
11							88	4	.95
12							85	4	.92
13							83	3	.67
14							82	3	.66
15							81	3	.66
16							78	4	.84
17							79	4	.85
18							81	4	.87
19							81	5	1.1
20							80	5	1.1
21							79	5	1.1
22							79	5	1.1
23							79	4	.85
24							77	4	.83
25							75	4	.81
26							74	3	.60
27							74	3	.60
28							76	2	.41
29							79	2	.43
30							83	2	.45
31							89	2	.48
TOTAL							2593	---	27.17

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1	88	1	.24	410	70	77	271	33	24
2	84	1	.23	405	50	55	304	37	30
3	83	1	.22	470	100	127	262	28	20
4	84	1	.23	520	90	126	243	22	14
5	84	1	.23	550	70	104	221	19	11
6	85	2	.46	570	55	85	204	18	9.9
7	82	3	.66	555	50	75	207	19	11
8	85	4	.92	525	42	60	245	31	21
9	95	5	1.3	470	36	46	304	42	34
10	110	7	2.1	417	42	47	341	50	46
11	122	8	2.6	335	32	29	370	52	52
12	132	9	3.2	290	27	21	362	48	47
13	145	11	4.3	274	30	22	334	39	35
14	157	13	5.5	267	30	22	296	31	25
15	172	17	7.9	260	21	15	316	45	38
16	190	21	11	292	30	24	343	47	44
17	215	28	16	335	34	31	389	56	59
18	255	43	30	367	39	39	428	57	66
19	280	50	38	431	47	55	431	56	65
20	305	57	47	529	57	81	448	50	60
21	295	50	40	588	60	95	446	49	59
22	230	40	25	611	40	66	413	46	51
23	210	36	20	563	40	61	374	38	38
24	205	43	24	398	40	43	355	36	35
25	222	52	31	318	35	30	358	38	37
26	265	65	47	274	28	21	360	39	38
27	305	82	68	253	25	17	328	31	27
28	345	90	84	246	25	17	311	25	21
29	390	97	102	251	30	20	347	30	28
30	435	100	117	277	30	22	362	29	28
31	---	---	---	265	30	21	---	---	---
TOTAL	5755	---	730.09	12316	---	1554	9973	---	1073.9

10336610 UPPER TRUCKEE RIVER AT SOUTH LAKE TAHOE, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JULY			AUGUST			SEPTEMBER	
1	372	32	32	61	7	1.2	14	2	.08
2	389	42	44	56	6	.91	15	2	.08
3	408	47	52	50	5	.68	15	2	.08
4	355	40	38	45	4	.49	14	2	.08
5	293	35	28	41	3	.33	14	2	.08
6	257	32	22	37	3	.30	14	2	.08
7	223	28	17	33	3	.27	14	4	.15
8	194	25	13	31	3	.25	19	3	.15
9	181	20	9.8	29	3	.23	19	3	.15
10	172	19	8.8	27	3	.22	17	3	.14
11	157	18	7.6	26	4	.28	16	3	.13
12	169	18	8.2	23	4	.25	17	2	.09
13	172	17	7.9	22	4	.24	15	2	.08
14	161	17	7.4	22	4	.24	14	2	.08
15	154	17	7.1	21	4	.23	14	2	.08
16	149	17	6.8	22	4	.24	14	2	.08
17	149	16	6.4	21	4	.23	13	2	.07
18	142	16	6.1	22	4	.24	13	2	.07
19	128	16	5.5	21	3	.17	13	2	.07
20	119	16	5.1	20	3	.16	13	2	.07
21	117	15	4.7	20	3	.16	13	2	.07
22	109	15	4.4	20	3	.16	12	2	.06
23	103	15	4.2	21	3	.17	12	2	.06
24	96	15	3.9	22	3	.18	12	2	.06
25	88	14	3.3	21	3	.17	12	2	.06
26	82	13	2.9	20	3	.16	11	3	.09
27	77	12	2.5	18	2	.10	11	3	.09
28	75	11	2.2	16	2	.09	11	3	.09
29	72	10	1.9	15	2	.08	11	3	.09
30	69	9	1.7	15	2	.08	10	3	.08
31	65	8	1.4	15	2	.08	---	---	---
TOTAL	5297	---	365.8	833	---	8.59	412	---	2.64
PERIOD	37179		3762.19						

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, MARCH TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DISH-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM
APR										
21...	0935	307	2.0	50	41	22	--	--	--	--
25...	0955	230	4.0	24	15	26	46	60	90	100
30...	0020	448	5.0	104	126	51	--	--	--	--
MAY										
03...	0030	461	6.0	99	123	21	--	--	--	--
07...	0105	589	4.5	58	92	40	--	--	--	--
09...	1350	497	4.5	30	40	36	44	64	91	100
11...	1405	319	4.0	31	27	29	--	--	--	--
20...	1700	497	9.5	50	67	29	--	--	--	--
21...	2335	575	7.0	49	76	59	--	--	--	--
JUN										
10...	0055	377	6.0	68	69	37	--	--	--	--
11...	1020	381	5.5	40	41	26	--	--	--	--

10336625 FALLEN LEAF LAKE NEAR CAMP RICHARDSON, CA

LOCATION.--Lat 38°54'00", long 120°04'14", in NE¼SW¼ sec.11, T.12 N., R.17 E., El Dorado County, Hydrologic Unit 16050101, Eldorado National Forest, on left bank near center of lake, 200 ft (61 m) north of Cathedral Creek, 1.5 mi (2.4 km) south of Fallen Leaf Dam, 2.9 mi (4.7 km) southwest of Camp Richardson, and 3.7 mi (6.0 km) west of South Lake Tahoe Post Office.

DRAINAGE AREA.--16.7 mi^2 (43.3 km^2).

PERIOD OF RECORD.--October 1968 to current year. Prior to October 1973, published as "near Tahoe Valley."

GAGE.--Water-stage recorder. Datum of gage is 6,372.30 ft (1,942.277 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Lake levels regulated by a concrete dam at the outlet constructed in 1934. Regulation is for maintenance of lake level and enhancement of fishery.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 5.85 ft (1.783 m) Jan. 13, 1980; minimum, 1.79 ft (0.546 m) Jan. 2, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 5.85 ft (1.783 m) Jan. 13; minimum, 2.38 ft (0.725 m) Mar. 30.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.69	3.10	3.44	3.17	2.58	2.67	2.42	3.32	3.08	3.49	4.30	3.93
2	2.68	3.09	3.43	3.09	2.55	2.65	2.42	3.32	3.10	3.84	4.28	3.92
3	2.68	3.15	3.42	3.01	2.51	2.66	2.40	3.39	3.07	4.12	4.27	3.91
4	2.67	3.14	3.39	2.92	2.50	2.63	2.40	3.47	3.09	4.23	4.25	3.89
5	2.67	3.14	3.39	2.84	2.48	2.67	2.50	3.53	3.03	4.27	4.23	3.88
6	2.66	3.14	3.38	2.77	2.48	2.66	2.50	3.57	2.98	4.29	4.20	3.88
7	2.65	3.13	3.37	2.70	2.47	2.63	2.49	3.60	2.97	4.35	4.19	3.88
8	2.64	3.12	3.37	2.66	2.47	2.61	2.48	3.52	3.02	4.39	4.18	3.88
9	2.63	3.11	3.36	2.71	2.46	2.58	2.47	3.48	3.12	4.42	4.17	3.87
10	2.63	3.10	3.35	2.69	2.45	2.56	2.48	3.35	3.18	4.42	4.16	3.86
11	2.62	3.08	3.32	3.00	2.45	2.59	2.48	3.25	3.23	4.41	4.16	3.85
12	2.60	3.06	3.29	4.38	2.45	2.56	2.50	3.15	3.23	4.40	4.15	3.83
13	2.57	3.04	3.27	5.85	2.44	2.53	2.54	3.10	3.20	4.40	4.14	3.77
14	2.55	3.03	3.24	5.29	2.52	2.50	2.60	3.05	3.17	4.39	4.13	3.75
15	2.54	3.02	3.21	4.73	2.58	2.49	2.66	3.00	3.18	4.38	4.13	3.74
16	2.53	3.02	3.19	4.35	2.63	2.47	2.73	3.00	3.24	4.38	4.14	3.74
17	2.49	3.06	3.17	4.03	2.85	2.47	2.82	3.06	3.33	4.40	4.13	3.73
18	2.51	3.06	3.11	3.72	3.11	2.46	2.91	3.15	3.38	4.40	4.10	3.69
19	2.84	3.04	3.04	3.48	3.17	2.46	3.01	3.27	3.41	4.38	4.10	3.68
20	2.96	3.04	2.99	3.29	3.12	2.45	3.13	3.40	3.42	4.36	4.08	3.66
21	2.98	3.03	3.03	3.14	3.13	2.46	3.14	3.51	3.41	4.36	4.08	3.65
22	2.98	3.06	2.99	3.03	3.03	2.46	3.11	3.60	3.36	4.36	4.08	3.64
23	2.98	3.05	3.05	2.95	2.95	2.45	3.05	3.47	3.32	4.36	4.08	3.64
24	2.97	3.15	3.18	2.87	2.88	2.44	3.02	3.33	3.28	4.36	4.08	3.62
25	3.06	3.34	3.17	2.82	2.82	2.42	3.03	3.20	3.28	4.36	4.07	3.60
26	3.08	3.40	3.12	2.75	2.77	2.41	3.08	3.11	3.28	4.35	4.06	3.59
27	3.09	3.43	3.08	2.70	2.73	2.41	3.14	3.05	3.27	4.33	4.04	3.56
28	3.10	3.44	3.03	2.69	2.72	2.40	3.21	3.00	3.25	4.32	4.02	3.55
29	3.10	3.45	2.99	2.66	2.69	2.39	3.28	2.99	3.30	4.30	3.98	3.54
30	3.10	3.45	3.10	2.63	---	2.38	3.32	3.02	3.35	4.30	3.96	3.53
31	3.10	---	3.20	2.60	---	2.39	---	3.05	---	4.30	3.95	---
MAX	3.10	3.45	3.44	5.85	3.17	2.67	3.32	3.60	3.42	4.42	4.30	3.93
MIN	2.49	3.02	2.99	2.60	2.44	2.38	2.40	2.99	2.97	3.49	3.95	3.53

CAL YR 1979 MAX 3.92 MIN 2.10
WTR YR 1980 MAX 5.85 MIN 2.38

10336626 TAYLOR CREEK NEAR CAMP RICHARDSON, CA

LOCATION.--Lat 38°55'18", long 120°03'37", in NE¼NW¼ sec.2, T.12 N., R.17 E., El Dorado County, Hydrologic Unit 16050101, Eldorado National Forest, on left bank 0.1 mi (0.2 km) downstream from Fallen Leaf Lake outlet, and 1.4 mi (2.3 km) southwest of Camp Richardson.

DRAINAGE AREA.--16.7 mi^2 (43.3 km^2).

PERIOD OF RECORD.--October 1968 to current year. Prior to October 1973, published as "near Tahoe Valley."

GAGE.--Water-stage recorder. Datum of gage is 6,361.08 ft (1,938.857 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for periods of no gage-height record, which are fair. Flow regulated by Fallen Leaf Lake Dam (station 10336625).

AVERAGE DISCHARGE (unadjusted).--12 years, 44.4 ft^3/s (1.257 m^3/s), 32,170 acre-ft/yr (39.7 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,530 ft^3/s (43.3 m^3/s) Jan. 14, 1980, gage height, 6.33 ft (1.929 m); minimum daily, 0.20 ft^3/s (0.006 m^3/s) Oct. 4-7, 1970, Sept. 4-6, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,530 ft^3/s (43.3 m^3/s) Jan. 14, gage height, 6.33 ft (1.929 m); minimum daily, 0.63 ft^3/s (0.018 m^3/s) Oct. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.88	4.5	17	63	40	47	21	180	107	91	23	4.2
2	.84	4.5	16	63	39	45	23	180	117	21	22	3.9
3	.84	4.5	16	60	36	45	24	195	118	46	21	3.9
4	.78	4.5	16	59	34	44	23	224	113	83	19	3.7
5	.70	4.5	17	56	33	47	27	250	107	89	17	3.5
6	.68	4.5	17	56	32	46	32	262	94	92	12	3.6
7	.63	6.6	17	56	30	43	28	271	85	47	8.9	3.7
8	.64	8.8	17	56	30	40	26	258	88	54	7.0	3.5
9	5.0	14	17	60	29	37	27	246	108	63	4.9	3.5
10	10	18	17	61	28	35	25	222	134	79	4.7	4.2
11	10	18	21	65	27	36	25	179	154	78	4.4	4.7
12	10	18	28	280	27	36	25	140	158	78	4.4	4.5
13	10	18	27	850	25	35	28	117	153	77	4.7	3.4
14	10	15	25	1220	25	33	33	104	139	77	4.9	2.6
15	10	11	24	698	31	32	38	93	136	74	4.9	2.7
16	10	11	23	489	36	29	44	90	149	57	6.8	2.7
17	10	9.5	22	397	53	28	54	97	172	50	21	2.7
18	10	9.5	29	320	105	27	67	110	197	57	8.0	2.9
19	10	9.5	36	251	138	26	85	135	211	64	5.4	2.9
20	10	9.5	33	194	136	27	116	181	218	62	6.3	3.1
21	10	11	33	150	119	26	130	223	218	52	1.8	3.2
22	10	13	32	120	94	26	124	253	208	44	1.6	3.3
23	12	13	32	98	79	25	109	251	189	45	2.1	3.1
24	12	13	40	83	69	25	98	215	175	44	3.0	3.0
25	15	13	44	73	61	24	96	171	172	44	2.9	2.7
26	20	13	41	66	57	24	102	133	173	42	2.7	2.7
27	15	13	38	61	55	23	114	109	167	40	2.6	2.8
28	12	15	34	53	54	22	134	95	159	36	3.1	2.7
29	12	16	32	50	50	22	156	89	167	31	4.2	2.7
30	12	16	33	46	---	22	179	92	187	28	4.2	2.9
31	7.2	---	51	43	---	21	---	101	---	25	4.2	---
TOTAL	258.19	339.4	845	6197	1572	998	2013	5266	4573	1770	242.7	99.0
MEAN	8.33	11.3	27.3	200	54.2	32.2	67.1	170	152	57.1	7.83	3.30
MAX	20	18	51	1220	138	47	179	271	218	92	23	4.7
MIN	.63	4.5	16	43	25	21	21	89	85	21	1.6	2.6
AC-FT	512	673	1680	12290	3120	1980	3990	10450	9070	3510	481	196

CAL YR 1979 TOTAL 12568.18 MEAN 34.4 MAX 278 MIN .63 AC-FT 24930
WTR YR 1980 TOTAL 24173.29 MEAN 66.0 MAX 1220 MIN .63 AC-FT 47950

10336645 GENERAL CREEK NEAR MEEKS BAY, CA

LOCATION.--Lat 39°03'07", long 120°07'03", in NE¼NE¼ sec.20, T.14 N., R.17 E., El Dorado County, Hydrologic Unit 16050101, on right bank 200 ft (60 m) upstream from State Highway 89, 1.1 mi (1.8 km) north of Meeks Bay, and 0.4 mi (0.6 km) upstream from Lake Tahoe.

DRAINAGE AREA.--7.44 mi^2 (19.3 km^2).

PERIOD OF RECORD.--July to September 1980.

GAGE.--Water-stage recorder. Altitude of gage is 6,238 ft (1,901 m), from topographic map.

REMARKS.--Records good except those for period of no gage height record, which are poor. No known diversion or regulation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12 ft^3/s (0.34 m^3/s) July 7, gage height 1.06 ft (0.323 m); minimum daily, 1.1 ft^3/s (0.31 m^3/s) Sept. 9-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										---	1.6	1.2
2										---	1.6	1.2
3										---	1.5	1.2
4										---	1.5	1.2
5										---	1.5	1.2
6										---	1.5	1.2
7										11	1.5	1.2
8										10	1.4	1.2
9										8.6	1.4	1.1
10										7.5	1.4	1.1
11										6.6	1.3	1.1
12										5.9	1.3	1.1
13										5.4	1.3	1.1
14										5.0	1.3	1.1
15										4.6	1.3	1.1
16										4.4	1.3	1.1
17										3.9	1.3	1.1
18										3.7	1.3	1.1
19										3.3	1.2	1.1
20										2.9	1.2	1.1
21										2.7	1.2	1.1
22										2.4	1.2	1.1
23										2.2	1.2	1.1
24										2.1	1.2	1.1
25										1.9	1.2	1.1
26										1.8	1.2	1.1
27										1.8	1.2	1.1
28										1.8	1.2	1.1
29										1.8	1.2	1.1
30										1.7	1.2	1.1
31										1.6	1.2	---
TOTAL										---	40.9	33.8
MEAN										---	1.32	1.13
MAX										---	1.6	1.2
MIN										---	1.2	1.1
AC-FT										---	81	67

10336660 BLACKWOOD CREEK NEAR TAHOE CITY, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975-78, October 1979 to September 1980.
WATER TEMPERATURES: Water years 1975-78, October 1979 to September 1980.
SEDIMENT RECORDS: Water years 1975-78, October 1979 to September 1980.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1974 to June 1978 (1977-78 storm season only), October 1979 to September 1980.
SEDIMENT RECORDS: October 1974 to June 1978 (1977-78 storm season only), October 1979 to September 1980.

COOPERATION.--Selected sediment samples and water temperature readings furnished by University of California at Davis.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,200 mg/L Jan. 13, 1980; minimum daily mean, 0 mg/L on many days each year.
SEDIMENT DISCHARGE: Maximum daily, 2,590 tons (2,350 metric tons) Jan. 13, 1980; minimum daily, 0 ton (0 metric ton) on many days each year.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,200 mg/L Jan. 13; minimum daily mean, 0 mg/L on many days.
SEDIMENT DISCHARGE: Maximum daily, 2,590 tons (2,350 metric tons) Jan. 13; minimum daily, 0 ton (0 metric ton) on many days.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	8.0	5.5	---	---	---
2	---	---	---	---	---	---	4.5	6.5	6.5	6.5	---	---
3	---	---	---	---	---	3.5	---	5.5	7.5	10.0	---	---
4	---	---	---	---	---	---	---	6.5	5.0	---	---	---
5	---	---	---	---	---	---	2.5	6.5	7.0	11.0	---	---
6	---	---	---	---	---	---	---	8.0	4.0	---	---	---
7	---	---	---	---	---	1.0	---	6.5	11.0	12.0	13.0	---
8	---	---	---	---	2.5	---	---	7.0	6.5	---	---	---
9	---	---	---	1.5	---	4.5	7.5	4.0	8.5	9.0	---	14.5
10	---	---	3.0	---	---	---	---	4.5	6.0	---	---	---
11	---	---	---	---	---	---	6.0	5.5	6.0	11.0	---	9.0
12	---	---	---	.0	---	---	---	6.5	5.5	---	---	---
13	---	---	---	.0	---	5.0	---	6.5	5.5	11.0	---	---
14	---	---	---	1.0	---	---	---	7.0	10.0	---	---	---
15	---	---	---	1.5	1.0	---	---	4.0	9.5	13.5	---	---
16	---	---	---	---	---	4.5	6.5	10.0	6.5	---	---	---
17	---	---	---	---	.5	1.0	7.5	9.5	5.0	---	---	---
18	---	---	---	---	.5	---	7.0	9.5	10.5	13.0	---	13.0
19	---	---	---	---	---	---	6.0	9.0	9.0	---	15.5	---
20	---	---	3.0	1.0	1.5	4.0	4.0	9.0	11.0	---	---	---
21	---	---	---	---	---	---	5.5	8.5	8.5	15.0	---	---
22	6.0	---	---	---	---	---	4.0	8.5	10.5	---	---	---
23	---	---	---	---	---	4.0	6.5	5.5	6.0	---	---	11.0
24	---	---	---	---	---	---	4.0	6.0	9.5	---	---	---
25	---	1.5	---	---	---	---	8.0	5.5	---	---	---	---
26	---	---	---	---	3.0	6.0	7.0	7.5	8.5	---	---	---
27	---	---	---	---	---	---	7.0	5.5	---	---	---	---
28	---	---	---	---	---	---	3.5	6.5	12.5	---	14.0	---
29	---	---	---	---	---	---	7.0	9.0	---	---	---	---
30	---	---	---	---	---	6.5	6.0	6.0	---	---	---	9.5
31	---	---	---	4.0	---	---	---	6.0	---	16.0	---	---
MEAN	6.0	1.5	3.0	1.5	1.5	4.0	6.0	7.0	8.0	11.5	14.0	11.5

10336660 BLACKWOOD CREEK NEAR TAHOE CITY, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	2.0	1	.00	4.8	1	.01	8.9	1	.02
2	2.3	1	.00	4.6	1	.01	8.5	1	.02
3	2.2	1	.00	5.2	1	.01	8.1	1	.02
4	2.1	1	.00	5.2	1	.01	7.9	1	.02
5	2.2	1	.00	4.9	1	.01	7.6	1	.02
6	2.3	1	.00	4.5	1	.01	7.4	1	.02
7	2.3	1	.00	4.3	1	.01	7.2	1	.02
8	2.4	1	.00	4.3	1	.01	7.1	1	.02
9	2.4	1	.00	4.5	1	.01	7.1	1	.02
10	2.3	1	.00	4.3	1	.01	7.1	1	.02
11	2.3	1	.00	4.3	1	.01	6.1	1	.02
12	2.4	1	.00	4.3	1	.01	6.1	1	.02
13	2.4	1	.00	4.3	1	.01	6.1	1	.02
14	2.5	1	.00	4.3	1	.01	5.8	1	.02
15	2.9	1	.00	4.3	1	.01	5.7	1	.02
16	2.7	1	.00	4.3	1	.01	5.5	1	.01
17	2.7	1	.00	5.3	1	.01	5.4	1	.01
18	3.0	1	.00	5.2	1	.01	5.3	1	.01
19	29	8	.63	4.5	1	.01	5.4	1	.01
20	20	4	.22	4.4	1	.01	5.4	1	.01
21	7.0	1	.02	4.5	1	.01	5.9	1	.02
22	5.7	1	.02	4.8	1	.01	6.1	1	.02
23	5.5	1	.01	5.6	1	.02	6.5	1	.02
24	5.5	1	.01	15	4	.16	7.0	1	.02
25	10	5	.14	28	3	.23	7.5	1	.02
26	11	3	.09	20	1	.05	7.4	1	.02
27	7.7	2	.04	14	1	.04	7.4	1	.02
28	6.4	1	.02	12	1	.03	7.3	1	.02
29	5.6	1	.02	10	1	.03	7.2	1	.02
30	5.2	1	.01	9.5	1	.03	9.0	3	.07
31	5.0	1	.01	---	---	---	25	5	.34
TOTAL	167.0	---	1.24	215.2	---	0.81	230.0	---	0.94

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JANUARY			FEBRUARY			MARCH	
1	23	3	.19	26	1	.07	30	0	.00
2	20	2	.11	25	1	.07	30	0	.00
3	18	1	.05	25	1	.07	29	0	.00
4	16	0	.00	24	1	.06	27	0	.00
5	15	0	.00	23	1	.06	27	0	.00
6	14	0	.00	24	1	.06	26	0	.00
7	13	0	.00	23	1	.06	24	0	.00
8	13	0	.00	23	1	.06	24	0	.00
9	14	1	.04	22	1	.06	23	1	.06
10	22	15	.89	22	1	.06	23	1	.06
11	45	140	17	21	1	.06	23	1	.06
12	500	1000	1350	21	1	.06	24	1	.06
13	800	1200	2590	20	2	.11	22	1	.06
14	400	420	454	21	2	.11	21	1	.06
15	173	100	47	22	2	.12	21	1	.06
16	133	90	32	23	2	.12	20	1	.05
17	109	40	12	61	220	36	20	1	.05
18	83	25	5.6	161	200	87	21	0	.00
19	68	8	1.5	85	15	3.4	20	0	.00
20	57	3	.46	58	3	.47	20	0	.00
21	50	2	.27	52	2	.28	22	1	.06
22	46	1	.12	44	1	.12	20	0	.00
23	42	1	.11	40	1	.11	19	0	.00
24	40	1	.11	38	1	.10	19	0	.00
25	38	1	.10	36	1	.10	18	1	.05
26	36	1	.10	34	1	.09	18	1	.05
27	34	1	.09	34	1	.09	18	1	.05
28	32	1	.09	34	1	.09	17	0	.00
29	30	1	.08	31	1	.08	18	0	.00
30	28	1	.08	---	---	---	20	0	.00
31	27	1	.07	---	---	---	20	0	.00
TOTAL	2939	---	4512.06	1073	---	129.14	684	---	0.73

10336660 BLACKWOOD CREEK NEAR TAHOE CITY, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1	20	0	.00	150	270	109	121	50	16
2	19	0	.00	170	280	129	137	25	9.2
3	18	0	.00	190	320	164	118	15	4.8
4	19	0	.00	220	340	202	109	25	7.4
5	20	0	.00	210	300	170	100	25	6.8
6	18	0	.00	215	240	139	93	20	5.0
7	17	0	.00	205	210	116	100	30	8.1
8	18	2	.10	190	200	103	121	50	16
9	19	4	.21	165	190	85	143	60	23
10	21	2	.11	140	90	34	157	50	21
11	22	2	.12	110	40	12	161	45	20
12	23	3	.19	97	20	5.2	154	25	10
13	32	18	1.6	90	20	4.9	133	22	7.9
14	50	22	3.0	90	20	4.9	127	20	6.9
15	65	25	4.4	105	25	7.1	140	25	9.5
16	72	37	7.2	125	50	17	159	25	11
17	80	50	11	150	90	36	172	30	14
18	95	80	21	175	115	54	177	25	12
19	110	130	39	205	160	89	171	24	11
20	112	130	39	235	200	127	160	22	9.5
21	90	90	22	250	250	169	153	21	8.7
22	75	70	14	245	240	159	139	20	7.5
23	65	50	8.8	185	170	85	128	18	6.2
24	70	80	15	134	50	18	125	15	5.1
25	95	110	28	110	30	8.9	119	12	3.9
26	110	140	42	96	20	5.2	119	11	3.5
27	125	200	67	90	20	4.9	110	12	3.6
28	140	180	68	93	40	10	114	12	3.7
29	155	330	138	102	35	9.6	124	10	3.3
30	155	310	130	109	35	10	119	10	3.2
31	---	---	---	114	45	14	---	---	---
TOTAL	1930	---	659.73	4765	---	2101.17	4003	---	277.8

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JULY			AUGUST			SEPTEMBER	
1	115	9	2.8	16	2	.09	3.9	2	.02
2	140	25	9.5	14	2	.08	3.8	2	.02
3	132	12	4.3	13	2	.07	3.8	1	.01
4	111	8	2.4	11	2	.06	3.6	1	.00
5	96	8	2.1	11	2	.06	3.5	1	.00
6	87	7	1.6	10	2	.05	3.5	1	.00
7	82	7	1.5	9.4	2	.05	3.5	1	.00
8	76	6	1.2	8.9	2	.05	3.6	1	.00
9	68	6	1.1	8.6	2	.05	3.4	1	.00
10	63	6	1.0	8.1	2	.04	3.4	1	.00
11	60	6	.97	7.6	2	.04	3.4	1	.00
12	58	6	.94	7.3	2	.04	3.4	1	.00
13	55	6	.89	6.9	1	.02	3.3	1	.00
14	53	5	.72	6.6	1	.02	3.3	0	.00
15	50	5	.68	6.4	1	.02	3.3	0	.00
16	48	5	.65	6.1	1	.02	3.2	0	.00
17	45	5	.61	6.1	1	.02	3.1	0	.00
18	44	5	.59	5.7	1	.02	3.1	0	.00
19	41	5	.55	5.6	1	.02	3.1	0	.00
20	38	5	.51	5.3	1	.01	3.1	0	.00
21	37	6	.60	5.1	1	.01	2.9	1	.00
22	35	6	.57	5.0	1	.01	2.9	1	.00
23	32	6	.52	4.9	1	.01	2.9	1	.00
24	30	6	.49	4.6	2	.02	2.8	1	.00
25	27	5	.36	4.5	2	.02	2.8	1	.00
26	25	5	.34	4.4	2	.02	2.8	1	.00
27	22	5	.30	4.2	2	.02	2.7	1	.00
28	22	5	.30	4.2	2	.02	2.7	1	.00
29	20	4	.22	4.2	2	.02	2.7	1	.00
30	19	3	.15	4.0	2	.02	2.7	1	.00
31	17	2	.09	4.0	2	.02	---	---	---
TOTAL	1748	---	38.55	222.7	---	1.02	96.2	---	0.05
YEAR	18073.1		7723.77						

10336660 BLACKWOOD CREEK NEAR TAHOE CITY, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DISH-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM
JAN								
13...	1200	700	.0	1070	2020	8	13	20
14...	0930	482	1.0	340	442	--	--	--
14...	1245	386	1.0	375	391	--	--	--
FEB								
17...	2335	182	.5	556	273	--	--	--
APR								
18...	1540	102	7.0	75	21	--	--	--
25...	1910	129	5.0	142	49	--	--	--
26...	1625	135	7.0	135	49	--	--	--
30...	1740	220	6.0	134	80	--	--	--
MAY								
04...	1800	282	6.5	397	302	--	--	--
06...	1525	239	8.0	195	126	--	--	--
07...	1935	234	5.0	193	122	--	--	--
11...	1115	106	3.5	45	13	--	--	--
20...	2035	287	5.0	207	160	--	--	--
JUN								
09...	2110	181	6.0	112	55	--	--	--
11...	2025	190	6.0	118	61	--	--	--

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
JAN								
13...	29	42	57	72	91	98	100	--
14...	--	--	51	69	91	99	100	--
14...	--	--	36	52	74	87	94	100
FEB								
17...	--	--	28	45	78	99	100	--
APR								
18...	--	--	26	--	--	--	--	--
25...	--	--	20	--	--	--	--	--
26...	--	--	10	--	--	--	--	--
30...	--	--	13	--	--	--	--	--
MAY								
04...	--	--	30	--	--	--	--	--
06...	--	--	56	--	--	--	--	--
07...	--	--	12	--	--	--	--	--
11...	--	--	14	--	--	--	--	--
20...	--	--	23	--	--	--	--	--
JUN								
09...	--	--	17	--	--	--	--	--
11...	--	--	13	--	--	--	--	--

10336676 WARD CREEK AT STATE HIGHWAY 89, NEAR TAHOE PINES, CA

LOCATION.--Lat 39°07'36", long 120°09'24", in NW¼SE¼ sec.24, T.15 N., R.16 E., Placer County, Hydrologic Unit 16050101, Tahoe National Forest, on right bank 165 ft (50 m) downstream from State Highway 89 bridge, 2.1 mi (3.4 km) north of Tahoe Pines, and 2.6 mi (4.2 km) southwest of Tahoe City.

DRAINAGE AREA.--9.70 mi^2 (25.1 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,230 ft (1,899 m), from topographic map.

REMARKS.--Records fair except those for the winter months, which are poor. Minor diversion for local water supply.

AVERAGE DISCHARGE.--8 years, 23.8 ft^3/s (0.674 m^3/s), 17,240 acre-ft/yr (21.3 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,450 ft^3/s (41.1 m^3/s) Jan. 13, 1980, gage height, 7.76 ft (2.365 m), from rating extended above 350 ft^3/s (9.91 m^3/s); no flow on may days during 1977-78.

EXTREMES FOR PERIOD JUNE TO SEPTEMBER 1977.--Maximum discharge, 51 ft^3/s (1.44 m^3/s) June 1, gage height 4.85 ft (1.48 m); no peak above base of 100 ft^3/s (2.83 m^3/s); no flow Aug. 4 to Sept. 19, Sept. 22-29.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 100 ft^3/s (283 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 13	2015	*1,450	41.1	7.76	2.365	June 1	2145	116	3.29	5.29	1.612
Feb. 17	2345	142	4.02	5.59	1.704	June 17	1815	144	4.08	5.46	1.664
May 6	1730	205	5.81	5.74	1.750	July 2	1945	137	3.88	5.47	1.667
May 21	1745	273	7.73	5.89	1.795						

Minimum daily, 0.45 ft^3/s (0.013 m^3/s) Oct. 1-3, 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.45	2.3	7.1	16	20	21	13	100	98	79	13	2.9
2	.45	2.3	6.6	14	19	21	13	112	101	98	11	2.7
3	.45	2.6	6.5	13	18	19	13	129	85	88	10	2.6
4	.48	2.7	6.2	12	17	19	12	150	82	75	9.6	2.4
5	.51	2.6	5.8	10	17	19	13	137	76	65	9.0	2.2
6	.50	2.5	6.1	9.0	17	18	12	152	71	59	8.5	2.2
7	.45	2.5	5.9	7.9	17	17	12	142	75	56	8.0	2.2
8	.59	2.6	5.5	7.5	17	17	12	131	90	53	7.4	2.4
9	.64	2.6	5.6	7.4	17	17	13	112	98	50	7.1	2.2
10	.63	2.5	5.6	17	16	17	15	88	107	47	6.6	2.4
11	.57	2.4	4.8	29	15	17	16	74	108	46	6.2	2.3
12	.57	2.4	4.4	275	15	18	17	68	103	44	5.9	2.1
13	.49	2.3	4.3	784	15	15	24	67	90	42	5.6	2.0
14	.60	2.3	4.1	331	14	15	32	71	90	41	5.5	2.1
15	1.1	2.3	4.0	115	14	14	35	81	96	39	5.3	2.1
16	1.2	2.3	4.0	88	15	14	40	100	105	37	5.5	1.9
17	1.0	2.7	4.0	74	45	14	50	110	114	36	5.3	1.9
18	1.2	3.1	4.0	59	94	14	59	125	116	34	5.2	1.9
19	17	2.7	4.0	52	59	13	67	155	110	32	5.0	2.0
20	10	2.4	4.0	46	36	13	75	173	105	30	4.5	2.0
21	4.3	2.4	4.3	42	32	14	65	196	100	29	4.2	2.0
22	3.9	2.6	4.5	38	30	13	52	186	93	28	4.0	2.0
23	3.4	3.2	4.8	35	28	12	50	139	85	26	3.8	1.9
24	3.2	14	5.2	33	26	12	60	105	82	24	3.8	1.8
25	8.4	18	5.5	31	24	12	70	87	79	22	3.8	1.8
26	7.1	16	5.4	29	24	12	79	76	78	20	3.6	1.7
27	4.9	11	5.3	27	24	12	90	74	71	18	3.4	1.7
28	4.0	8.4	5.0	25	23	12	98	76	74	17	3.3	1.6
29	3.0	7.6	5.0	23	22	12	114	84	81	16	3.0	1.5
30	2.5	7.4	6.0	22	---	14	105	91	81	15	3.0	1.6
31	2.5	---	18	21	---	14	---	98	---	14	3.0	---
TOTAL	86.08	140.7	171.5	2292.8	730	471	1326	3489	2744	1280	183.1	62.1
MEAN	2.78	4.69	5.53	74.0	25.2	15.2	44.2	113	91.5	41.3	5.91	2.07
MAX	17	18	18	784	94	21	114	196	116	98	13	2.9
MIN	.45	2.3	4.0	7.4	14	12	12	67	71	14	3.0	1.5
AC-FT	171	279	340	4550	1450	934	2630	6920	5440	2540	363	123

CAL YR 1979 TOTAL 7760.05 MEAN 21.3 MAX 199 MIN .38 AC-FT 15390
WTR YR 1980 TOTAL 12976.28 MEAN 35.5 MAX 784 MIN .45 AC-FT 25740

10336676 WARD CREEK AT STATE HIGHWAY 89, NEAR TAHOE PINES, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1973-78, October 1979 to September 1980.
WATER TEMPERATURES: Water years 1973-78, October 1979 to September 1980.
SEDIMENT RECORDS: Water years 1973-78, October 1979 to September 1980.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1972 to June 1978 (storm season only for water years 1977-78), October 1979 to September 1980.
SEDIMENT RECORDS: October 1972 to June 1978 (storm season only for water years 1977-78), October 1979 to September 1980.

COOPERATION.--Selected sediment samples and temperature observations furnished by University of California at Davis.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 670 mg/L Jan. 13, 1980; minimum daily mean, 0 mg/L on many days each year.
SEDIMENT DISCHARGE: Maximum daily, 1,420 tons (1,290 metric tons) Jan. 13, 1980; minimum daily, 0 ten (0 metric ton) on many days each year.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 670 mg/L Jan. 13; minimum daily mean, 0 mg/L on many days.
SEDIMENT DISCHARGE: Maximum daily, 1,420 tons (1,290 metric tons) Jan. 13; minimum daily, 0 ton (0 metric ton) on many days.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	7.5	5.0	---	---	---
2	---	---	---	---	---	---	3.0	7.0	7.0	6.0	---	---
3	---	---	---	---	---	3.0	---	5.5	7.0	11.0	---	---
4	---	---	---	---	---	---	---	4.5	5.5	---	---	---
5	---	---	---	---	---	---	1.0	6.0	8.0	12.0	---	---
6	---	---	---	---	---	---	---	7.0	8.5	---	---	---
7	---	---	---	---	---	1.0	---	6.0	11.0	13.0	14.0	---
8	---	---	---	---	1.0	---	---	6.5	6.5	---	---	---
9	---	---	---	1.0	---	4.5	7.0	4.0	9.0	8.0	---	15.0
10	---	---	2.0	---	---	---	---	4.0	6.0	---	---	---
11	---	---	---	---	---	---	6.0	5.0	6.0	11.5	---	11.0
12	---	---	---	.5	---	---	---	6.0	8.5	---	---	---
13	---	---	---	.0	---	4.0	---	7.0	6.0	11.5	---	---
14	---	---	---	1.0	---	---	---	6.0	10.0	---	---	---
15	---	---	---	1.5	.0	---	---	3.5	10.0	14.0	---	---
16	---	---	---	---	---	3.5	5.5	10.0	7.0	---	---	---
17	---	---	---	---	.0	2.0	7.0	9.5	5.0	---	---	---
18	---	---	---	---	.0	---	6.5	9.5	5.0	15.5	---	13.0
19	---	---	---	---	.0	---	4.5	9.5	9.5	---	15.5	---
20	---	---	.0	.5	---	2.0	4.0	9.5	11.0	---	---	---
21	---	---	---	---	---	---	6.0	9.0	10.0	15.0	---	---
22	5.5	---	---	---	---	---	3.5	8.5	11.0	---	---	---
23	---	---	---	---	---	3.0	5.5	4.5	5.5	---	---	10.0
24	---	---	---	---	---	---	6.0	6.0	9.0	---	---	---
25	---	1.0	---	---	---	---	7.0	5.5	---	---	---	---
26	---	---	---	---	---	4.5	7.0	8.0	8.5	---	---	---
27	---	---	---	---	---	---	5.5	5.5	---	---	14.5	---
28	---	---	---	---	---	---	3.0	6.0	12.5	---	---	---
29	---	---	---	---	---	---	6.0	9.0	---	---	---	---
30	---	---	---	---	---	5.5	4.5	5.5	---	---	---	11.0
31	---	---	---	2.0	---	---	---	6.5	---	15.0	---	---
MEAN	5.5	1.0	1.0	1.0	.0	3.5	5.0	6.5	8.0	12.0	14.5	12.0

10336676 WARD CREEK AT STATE HIGHWAY 89 NEAR TAHOE PINES, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	.45	0	.00	2.3	1	.00	7.1	1	.02
2	.45	0	.00	2.3	1	.00	6.6	1	.02
3	.45	0	.00	2.6	1	.00	6.5	1	.02
4	.48	0	.00	2.7	1	.00	6.2	1	.02
5	.51	0	.00	2.6	1	.00	5.8	1	.02
6	.50	0	.00	2.5	1	.00	6.1	1	.02
7	.45	0	.00	2.5	1	.00	5.9	1	.02
8	.59	0	.00	2.6	1	.00	5.5	1	.01
9	.64	0	.00	2.6	1	.00	5.6	1	.02
10	.63	0	.00	2.5	1	.00	5.6	1	.02
11	.57	0	.00	2.4	1	.00	4.8	1	.01
12	.57	0	.00	2.4	1	.00	4.4	1	.01
13	.49	0	.00	2.3	1	.00	4.3	1	.01
14	.60	0	.00	2.3	1	.00	4.1	0	.00
15	1.1	2	.00	2.3	1	.00	4.0	0	.00
16	1.2	1	.00	2.3	1	.00	4.0	0	.00
17	1.0	1	.00	2.7	1	.00	4.0	0	.00
18	1.2	1	.00	3.1	1	.00	4.0	0	.00
19	17	5	.23	2.7	1	.00	4.0	0	.00
20	10	3	.08	2.4	1	.00	4.0	0	.00
21	4.3	1	.01	2.4	1	.00	4.3	0	.00
22	3.9	1	.01	2.6	1	.00	4.5	0	.00
23	3.4	1	.00	3.2	1	.00	4.8	0	.00
24	3.2	1	.00	14	6	.23	5.2	0	.00
25	8.4	3	.07	18	2	.10	5.5	1	.01
26	7.1	1	.02	16	1	.04	5.4	1	.01
27	4.9	1	.01	11	1	.03	5.3	1	.01
28	4.0	1	.01	8.4	1	.02	5.0	1	.01
29	3.0	1	.00	7.6	1	.02	5.0	1	.01
30	2.5	1	.00	7.4	1	.02	6.0	1	.02
31	2.5	1	.00	---	---	---	18	3	.15
TOTAL	86.08	---	0.44	140.7	---	0.46	171.5	---	0.44

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JANUARY			FEBRUARY			MARCH	
1	16	2	.09	20	0	.00	21	1	.06
2	14	2	.08	19	0	.00	21	1	.06
3	13	2	.07	18	0	.00	19	1	.05
4	12	2	.06	17	0	.00	19	1	.05
5	10	2	.05	17	0	.00	19	1	.05
6	9.0	2	.05	17	0	.00	18	0	.00
7	7.9	2	.04	17	0	.00	17	0	.00
8	7.5	2	.04	17	0	.00	17	1	.05
9	7.4	2	.04	17	0	.00	17	2	.09
10	17	5	.23	16	0	.00	17	2	.09
11	29	15	1.2	15	0	.00	17	2	.09
12	275	300	223	15	0	.00	18	2	.10
13	784	670	1420	15	1	.04	15	2	.08
14	331	190	170	14	1	.04	15	2	.08
15	115	13	4.0	14	1	.04	14	1	.04
16	88	6	1.4	15	1	.04	14	1	.04
17	74	5	1.0	45	40	4.9	14	1	.04
18	59	4	.64	94	30	7.6	14	1	.04
19	52	3	.42	59	1	.16	13	0	.00
20	46	2	.25	36	1	.10	13	0	.00
21	42	2	.23	32	1	.09	14	0	.00
22	38	2	.21	30	1	.08	13	1	.04
23	35	2	.19	28	1	.08	12	1	.03
24	33	2	.18	26	1	.07	12	1	.03
25	31	2	.17	24	1	.06	12	1	.03
26	29	1	.08	24	1	.06	12	1	.03
27	27	1	.07	24	1	.06	12	1	.03
28	25	1	.07	23	1	.06	12	0	.00
29	23	1	.06	22	1	.06	12	0	.00
30	22	1	.06	---	---	---	14	0	.00
31	21	1	.06	---	---	---	14	0	.00
TOTAL	2292.8	---	1874.04	730	---	13.54	471	---	1.20

BEST DOCUMENT AVAILABLE

10336676 WARD CREEK AT STATE HIGHWAY 89 NEAR TAHOE PINES, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1	13	0	.00	100	17	4.6	98	5	1.3
2	13	0	.00	112	22	6.7	101	7	1.9
3	13	0	.00	129	40	14	85	5	1.1
4	12	1	.03	150	60	24	82	4	.89
5	13	1	.04	137	30	11	76	5	1.0
6	12	1	.03	152	35	14	71	5	.96
7	12	1	.03	142	25	9.6	75	6	1.2
8	12	0	.00	131	18	6.4	90	9	2.2
9	13	0	.00	112	28	8.5	98	16	4.2
10	15	1	.04	88	12	2.9	107	18	5.2
11	16	3	.13	74	7	1.4	108	20	5.8
12	17	6	.28	68	5	.92	103	10	2.8
13	24	8	.52	67	7	1.3	90	6	1.5
14	32	9	.78	71	8	1.5	90	6	1.5
15	35	10	.95	81	13	2.8	96	7	1.8
16	40	13	1.4	100	15	4.1	105	7	2.0
17	50	16	2.2	110	17	5.0	114	10	3.1
18	59	19	3.0	125	28	9.5	116	14	4.4
19	67	30	5.4	155	50	21	110	9	2.7
20	75	14	2.8	173	58	27	105	6	1.7
21	65	7	1.2	196	55	29	100	5	1.4
22	52	3	.42	186	48	24	93	5	1.3
23	50	4	.54	139	25	9.4	85	5	1.1
24	60	7	1.1	105	18	5.1	82	4	.89
25	70	25	4.7	87	7	1.6	79	4	.85
26	79	32	6.8	76	5	1.0	78	3	.63
27	90	32	7.8	74	7	1.4	71	3	.58
28	98	40	11	76	4	.82	74	2	.40
29	114	50	15	84	5	1.1	81	3	.66
30	105	30	8.5	91	12	2.9	81	3	.66
31	---	---	---	98	6	1.6	---	---	---
TOTAL	1326	---	74.69	3489	---	254.14	2744	---	55.72

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JULY			AUGUST			SEPTEMBER	
1	79	3	.64	13	1	.04	2.9	0	.00
2	98	15	4.0	11	1	.03	2.7	0	.00
3	88	10	2.4	10	1	.03	2.6	0	.00
4	75	7	1.4	9.6	1	.03	2.4	0	.00
5	65	5	.88	9.0	1	.02	2.2	0	.00
6	59	4	.64	8.5	1	.02	2.2	0	.00
7	56	4	.60	8.0	1	.02	2.2	0	.00
8	53	4	.57	7.4	1	.02	2.4	0	.00
9	50	3	.41	7.1	1	.02	2.2	0	.00
10	47	3	.38	6.6	1	.02	2.4	0	.00
11	46	4	.50	6.2	1	.02	2.3	0	.00
12	44	3	.36	5.9	1	.02	2.1	0	.00
13	42	3	.34	5.6	0	.00	2.0	0	.00
14	41	3	.33	5.5	0	.00	2.1	0	.00
15	39	3	.32	5.3	0	.00	2.1	0	.00
16	37	3	.30	5.5	0	.00	1.9	0	.00
17	36	2	.19	5.3	0	.00	1.9	0	.00
18	34	2	.18	5.2	0	.00	1.9	0	.00
19	32	2	.17	5.0	0	.00	2.0	0	.00
20	30	2	.16	4.5	0	.00	2.0	0	.00
21	29	1	.08	4.2	0	.00	2.0	1	.00
22	28	1	.08	4.0	0	.00	2.0	1	.00
23	26	1	.07	3.8	0	.00	1.9	1	.00
24	24	1	.06	3.8	0	.00	1.8	1	.00
25	22	1	.06	3.8	0	.00	1.8	1	.00
26	20	1	.05	3.6	0	.00	1.7	1	.00
27	18	1	.05	3.4	0	.00	1.7	1	.00
28	17	1	.05	3.3	0	.00	1.6	1	.00
29	16	1	.04	3.0	0	.00	1.5	1	.00
30	15	1	.04	3.0	0	.00	1.6	1	.00
31	14	1	.04	3.0	0	.00	---	---	---
TOTAL	1280	---	15.39	183.1	---	0.29	62.1	---	0.00
YEAR	12976.28		2240.35						

10336676 WARD CREEK AT STATE HIGHWAY 89, NEAR TAHOE PINES, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DISH-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM
JAN								
13...	1230	785	.0	672	1420	9	14	19
13...	1730	1050	.0	949	2690	7	10	16
14...	0900	340	.5	172	158	--	--	--
APR								
29...	1755	137	4.5	103	38	--	--	--
MAY								
03...	2000	173	3.5	102	48	--	--	--
19...	2005	208	4.5	103	58	--	--	--
20...	2010	222	5.0	83	50	--	--	--
22...	1600	205	8.5	52	29	--	--	--
JUN								
18...	1700	135	5.0	23	8.4	--	--	--

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
JAN								
13...	27	38	48	64	84	96	100	--
13...	24	34	46	62	84	97	100	--
14...	--	--	55	73	90	99	100	--
APR								
29...	--	--	45	--	--	--	--	--
MAY								
03...	--	--	45	--	--	--	--	--
19...	--	--	34	--	--	--	--	--
20...	--	--	37	--	--	--	--	--
22...	--	--	42	52	73	89	98	100
JUN								
18...	--	--	50	--	--	--	--	--

10336689 SNOW CREEK AT TAHOE VISTA, CA

LOCATION.--Lat 39°14'18", long 120°02'19", in SE¼NW¼ sec.13, T.16 N., R.17 E., Placer County, Hydrologic Unit 16050101, on right bank 300 ft (90 m) downstream from State Highway 28, 0.6 mi (1.0 km) east of Tahoe Vista Post Office, and 20 ft (6 m) upstream from Lake Tahoe.

DRAINAGE AREA.--4.43 mi^2 (11.5 km^2).

PERIOD OF RECORD.--July to September 1980.

GAGE.--Water-stage recorder. Altitude of gage is 6,230 ft (1,898.9 m), from topographic map.

REMARKS.--Records fair. No regulation or diversion above station.

EXTREMES FOR PERIOD.--Maximum daily discharge, 0.30 ft^3/s (0.008 m^3/s) Aug. 1, 2, 16; minimum daily, 0.06 ft^3/s (0.002 m^3/s) Sept. 26-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										---	.30	.11
2										---	.30	.11
3										---	.19	.10
4										---	.19	.10
5										---	.17	.10
6										---	.19	.10
7										---	.14	.09
8										---	.12	.09
9										---	.11	.09
10										---	.11	.09
11										---	.11	.14
12										---	.09	.09
13										---	.12	.08
14										---	.12	.08
15										---	.14	.08
16										---	.30	.08
17										---	.22	.08
18										---	.19	.08
19										---	.19	.07
20										---	.19	.07
21										---	.17	.07
22										---	.17	.07
23										---	.17	.07
24										---	.16	.07
25										---	.15	.07
26										---	.15	.06
27										---	.14	.06
28										---	.13	.06
29										---	.13	.06
30										.26	.12	.06
31										.26	.12	---
TOTAL										---	5.10	2.48
MEAN										---	.16	.083
MAX										---	.30	.14
MIN										---	.09	.06
AC-FT										---	10	4.9

10336698 THIRD CREEK NEAR CRYSTAL BAY, NV

LOCATION.--Lat 39°14'26", long 119°56'41", in SW¼NE¼ sec.22, T.16 N., R.18 E., Washoe County, Hydrologic Unit 16050101, on right bank 50 ft (15 m) upstream from culvert on Lakeshore Boulevard, 600 ft (180 m) upstream from mouth and 3 mi (5 km) east of Crystal Bay.

DRAINAGE AREA.--6.05 mi^2 (15.7 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1969 to September 1973, February to September 1975, October 1977 to current year.

REVISED RECORDS.--WDR NV-78-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,234.03 ft (1,900.132 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except those for winter months, which are poor. One transmountain diversion to Washoe Valley.

AVERAGE DISCHARGE.--7 years (1970-73, 1978-80), 7.89 ft^3/s (0.223 m^3/s), 5,720 acre-ft/yr (7.05 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 110 ft^3/s (3.12 m^3/s) June 26, 1971, gage height, 3.17 ft (0.966 m); maximum gage height, 3.77 ft (1.149 m) Jan. 23, 1973, backwater from ice; minimum discharge, 0.66 ft^3/s (0.019 m^3/s) Oct. 13, 14, 16-19, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 30 ft^3/s (0.85 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 13	2100	60	1.90	2.62	0.799	May 22	2000	63	1.78	2.76	0.841
May 4	2000	35	0.99	2.53	0.771	July 1	1800	*74	2.10	2.93	0.893

Minimum daily discharge, 2.0 (0.057 m^3/s) Oct. 2-4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	5.0	4.6	8.5	4.6	5.2	4.8	21	24	60	8.0	3.7
2	2.0	5.4	4.4	6.0	4.2	5.2	4.7	22	26	56	8.0	3.5
3	2.0	6.4	4.2	5.5	4.2	5.1	4.1	24	22	46	8.3	3.7
4	2.0	6.3	4.0	4.9	4.4	6.0	4.2	28	22	38	7.7	3.5
5	2.1	6.8	4.1	4.9	4.9	5.2	5.4	29	21	34	6.3	4.0
6	2.3	8.5	4.2	4.9	5.0	4.8	4.7	28	19	28	6.1	4.2
7	3.3	7.4	4.3	4.8	6.2	5.2	5.6	28	19	28	5.6	4.2
8	4.6	7.2	4.3	4.6	8.0	8.8	4.6	25	23	24	5.8	5.1
9	3.4	7.0	4.1	5.4	10	7.5	4.3	22	27	21	5.3	4.4
10	2.9	6.7	3.5	9.8	4.5	6.0	4.3	18	35	20	5.3	4.0
11	2.9	6.3	3.4	12	4.4	5.2	5.0	16	40	20	5.3	3.7
12	2.8	5.8	3.4	30	4.2	5.0	6.0	14	43	20	5.1	4.0
13	2.9	4.9	3.4	44	4.4	4.8	7.0	14	39	17	4.9	3.7
14	3.4	5.1	3.3	17	4.6	5.1	8.0	13	38	16	5.1	3.5
15	4.0	5.2	3.3	11	5.2	4.9	10	13	46	17	5.1	3.5
16	3.7	5.5	3.3	10	5.2	8.0	12	15	46	18	5.1	3.3
17	3.4	6.2	3.5	8.9	8.7	5.6	13	17	41	17	4.9	3.3
18	3.4	6.2	3.5	8.2	11	4.4	15	20	57	16	4.9	3.3
19	13	5.8	3.3	7.2	9.3	7.8	15	25	46	15	4.9	3.3
20	12	5.4	3.3	5.8	8.0	4.5	15	32	38	14	4.6	3.3
21	9.2	4.9	4.9	7.7	7.7	5.0	12	40	40	11	4.4	3.4
22	8.4	4.6	4.7	5.9	7.8	5.3	11	53	41	11	4.6	3.3
23	7.6	4.4	4.5	7.9	5.8	4.5	9.8	45	41	11	4.9	3.3
24	6.8	5.1	4.1	5.2	5.1	4.2	11	33	49	10	4.6	3.2
25	8.3	4.8	3.9	5.1	5.0	3.9	13	27	58	10	4.6	3.1
26	6.6	5.0	4.1	5.0	5.3	4.1	16	25	42	9.6	4.6	3.2
27	6.6	5.0	4.6	4.9	5.4	4.3	17	23	38	9.3	4.2	3.1
28	6.4	5.0	4.9	5.1	5.8	6.0	20	22	40	9.6	4.0	3.0
29	5.0	5.0	5.0	4.4	6.9	5.3	20	23	56	8.3	4.0	3.1
30	5.0	4.8	6.1	4.5	---	5.4	21	26	58	6.6	4.0	3.1
31	5.0	---	8.7	4.5	---	7.4	---	25	---	8.0	4.0	---
TOTAL	153.1	171.7	130.9	273.6	175.8	169.7	303.5	766	1135	629.4	164.2	107.0
MEAN	4.94	5.72	4.22	8.83	6.06	5.47	10.1	24.7	37.8	20.3	5.30	3.57
MAX	13	8.5	8.7	44	11	8.8	21	53	58	60	8.3	5.1
MIN	2.0	4.4	3.3	4.4	4.2	3.9	4.1	13	19	6.6	4.0	3.0
AC-FT	304	341	260	543	349	337	602	1520	2250	1250	326	212

CAL YR 1979 TOTAL 2208.8 MEAN 6.05 MAX 65 MIN 1.4 AC-FT 4380
WTR YR 1980 TOTAL 4179.9 MEAN 11.4 MAX 60 MIN 2.0 AC-FT 8290

BEST DOCUMENT AVAILABLE

10336698 THIRD CREEK NEAR CRYSTAL BAY, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1970-73, 1975, 1978 to current year.
CHEMICAL ANALYSES: Water years 1970-73, 1975, 1978 to current year.
WATER TEMPERATURES: January to September 1980.
SEDIMENT RECORDS: January to September 1980.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: January to September 1980.
SEDIMENT RECORDS: January to September 1980.

COOPERATION.--Selected sediment samples and temperature observations furnished by University of California at Davis.

EXTREMES FOR PERIOD.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 800 mg/L June 18; minimum daily mean, 3 mg/L on many days during September.
SEDIMENT DISCHARGE: Maximum daily, 123 tons (112 metric tons) June 18; minimum daily, 0.02 ton (0.03 metric ton) on September 28.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				---	---	---	---	---	5.0	8.5	---	---
2				---	---	---	---	4.5	5.0	8.0	---	---
3				---	---	---	6.5	9.5	3.5	12.0	---	---
4				---	---	---	---	6.0	5.5	---	---	---
5				---	---	---	---	5.0	8.5	9.5	---	---
6				---	5.0	---	3.0	3.0	6.5	12.0	14.0	---
7				---	---	---	---	7.0	11.0	10.0	---	12.0
8				2.5	---	---	---	6.5	8.0	12.0	---	---
9				---	---	---	---	1.5	7.0	13.5	---	---
10				---	---	---	---	3.5	7.0	11.5	---	---
11				---	---	---	---	3.5	4.5	14.0	---	---
12				---	---	---	5.0	3.5	---	14.0	-	13.5
13				2.0	---	4.0	---	5.5	4.5	12.0	9.0	---
14				2.0	---	---	5.0	6.0	10.0	11.0	---	---
15				3.0	---	---	10.5	4.5	---	15.0	---	12.0
16				---	---	---	---	---	9.5	---	---	---
17				---	---	---	---	3.5	---	---	---	---
18				---	1.5	---	---	7.0	5.5	---	---	---
19				---	---	6.5	5.0	10.5	8.5	---	---	---
20				---	---	---	5.0	4.5	8.0	16.0	---	---
21				---	---	---	6.5	5.0	4.5	18.0	---	9.5
22				---	---	---	6.0	4.0	8.0	---	---	---
23				---	---	5.0	7.5	3.0	10.0	---	---	---
24				---	---	---	6.0	3.0	9.0	---	---	---
25				---	---	.0	---	4.0	9.5	---	---	---
26				---	---	---	6.5	6.0	11.0	12.0	---	---
27				---	---	7.0	3.5	7.0	10.5	---	13.0	10.0
28				---	---	---	---	---	12.0	---	---	---
29				---	---	---	4.5	10.0	11.5	---	---	---
30				---	---	---	5.5	6.0	11.0	---	---	---
31				---	---	3.5	---	5.0	---	17.0	---	---
MEAN				2.5	3.5	4.5	5.5	5.5	8.0	12.5	12.0	11.5

10336698 THIRD C NR CRYSTAL BAY, NV

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JANUARY			FEBRUARY			MARCH	
1	8.5	9	.21	4.6	10	.12	5.2	5	.07
2	6.0	9	.15	4.2	12	.14	5.2	5	.07
3	5.5	9	.13	4.2	14	.16	5.1	5	.07
4	4.9	9	.12	4.4	17	.20	6.0	7	.11
5	4.9	9	.12	4.9	20	.26	5.2	5	.07
6	4.9	9	.12	5.0	20	.27	4.8	5	.06
7	4.8	9	.12	6.2	18	.30	5.2	7	.10
8	4.6	9	.11	8.0	16	.35	8.8	8	.19
9	5.4	9	.13	10	14	.38	7.5	8	.16
10	9.8	17	.45	4.5	12	.15	6.0	10	.16
11	12	25	.81	4.4	10	.12	5.2	6	.08
12	30	300	24	4.2	10	.11	5.0	7	.09
13	44	360	43	4.4	10	.12	4.8	10	.13
14	17	160	7.3	4.6	10	.12	5.1	10	.14
15	11	28	.83	5.2	10	.14	4.9	5	.07
16	10	14	.38	5.2	10	.14	8.0	7	.15
17	8.9	12	.29	8.7	35	.82	5.6	10	.15
18	8.2	11	.24	11	40	1.2	4.4	9	.11
19	7.2	10	.19	9.3	22	.55	7.8	12	.25
20	5.8	9	.14	8.0	19	.41	4.5	6	.07
21	7.7	9	.19	7.7	15	.31	5.0	9	.12
22	5.9	9	.14	7.8	13	.27	5.3	9	.13
23	7.9	9	.19	5.8	8	.13	4.5	12	.15
24	5.2	9	.13	5.1	7	.10	4.2	6	.07
25	5.1	10	.14	5.0	6	.08	3.9	6	.06
26	5.0	10	.14	5.3	5	.07	4.1	7	.08
27	4.9	10	.13	5.4	5	.07	4.3	14	.16
28	5.1	10	.14	5.8	5	.08	6.0	7	.11
29	4.4	10	.12	6.9	5	.09	5.3	9	.13
30	4.5	10	.12	---	---	---	5.4	8	.12
31	4.5	10	.12	---	---	---	7.4	8	.16
TOTAL	273.6	---	80.40	175.8	---	7.26	169.7	---	3.59

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1	4.8	10	.13	21	40	2.3	24	15	.97
2	4.7	12	.15	22	60	3.6	26	15	1.1
3	4.1	13	.14	24	110	7.1	22	15	.89
4	4.2	12	.14	28	125	9.5	22	25	1.5
5	5.4	14	.20	29	55	4.3	21	15	.85
6	4.7	7	.09	28	50	3.8	19	15	.77
7	5.6	10	.15	28	50	3.8	19	60	3.1
8	4.6	13	.16	25	30	2.0	23	165	10
9	4.3	14	.16	22	25	1.5	27	195	14
10	4.3	18	.21	18	25	1.2	35	230	22
11	5.0	20	.27	16	25	1.1	40	160	17
12	6.0	30	.49	14	20	.76	43	170	20
13	7.0	35	.66	14	20	.76	39	130	14
14	8.0	65	1.4	13	20	.70	38	180	18
15	10	65	1.8	13	25	.88	46	230	29
16	12	70	2.3	15	30	1.2	46	180	22
17	13	80	2.8	17	60	2.8	41	450	50
18	15	95	3.8	20	85	4.6	57	800	123
19	15	110	4.5	25	125	8.4	46	350	43
20	15	50	2.0	32	190	16	38	200	21
21	12	28	.91	40	220	24	40	240	26
22	11	25	.74	53	250	36	41	240	27
23	9.8	20	.53	45	130	16	41	200	22
24	11	40	1.2	33	35	3.1	49	500	66
25	13	50	1.8	27	25	1.8	58	400	63
26	16	70	3.0	25	55	3.7	42	340	39
27	17	70	3.2	23	20	1.2	38	140	14
28	20	55	3.0	22	20	1.2	40	160	17
29	20	30	1.6	23	30	1.9	56	350	53
30	21	35	2.0	26	25	1.8	58	500	78
31	---	---	---	25	15	1.0	---	---	---
TOTAL	--	39.53	766	---	168.00	1135	---	817.18	

BEST DOCUMENT AVAILABLE

10336698 THIRD C NR CRYSTAL BAY, NV

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JULY			AUGUST			SEPTEMBER	
1	60	420	68	8.0	4	.09	3.7	5	.05
2	56	240	36	8.0	4	.09	3.5	5	.05
3	46	120	15	8.3	4	.09	3.7	5	.05
4	38	90	9.2	7.7	4	.08	3.5	4	.04
5	34	85	7.8	6.3	4	.07	4.0	5	.05
6	28	45	3.4	6.1	4	.07	4.2	4	.05
7	28	65	4.9	5.6	4	.06	4.2	4	.05
8	24	35	2.3	5.8	4	.06	5.1	4	.06
9	21	25	1.4	5.3	4	.06	4.4	3	.04
10	20	20	1.1	5.3	4	.06	4.0	3	.03
11	20	45	2.4	5.3	4	.06	3.7	3	.03
12	20	25	1.4	5.1	4	.06	4.0	3	.03
13	17	25	1.1	4.9	4	.05	3.7	3	.03
14	16	14	.60	5.1	4	.06	3.5	3	.03
15	17	18	.83	5.1	4	.06	3.5	3	.03
16	18	16	.78	5.1	4	.06	3.3	3	.03
17	17	14	.64	4.9	4	.05	3.3	3	.03
18	16	13	.56	4.9	4	.05	3.3	3	.03
19	15	11	.45	4.9	4	.05	3.3	3	.03
20	14	10	.38	4.6	4	.05	3.3	3	.03
21	11	9	.27	4.4	4	.05	3.4	3	.03
22	11	8	.24	4.6	5	.06	3.3	3	.03
23	11	7	.21	4.9	5	.07	3.3	3	.03
24	10	6	.16	4.6	5	.06	3.2	3	.03
25	10	5	.14	4.6	5	.06	3.1	3	.03
26	9.6	4	.10	4.6	5	.06	3.2	3	.03
27	9.3	4	.10	4.2	5	.06	3.1	3	.03
28	9.6	5	.13	4.0	5	.05	3.0	3	.02
29	8.3	4	.09	4.0	5	.05	3.1	3	.03
30	6.6	4	.07	4.0	5	.05	3.1	3	.03
31	8.0	4	.09	4.0	5	.05	---	---	---
TOTAL	629.4	---	159.84	164.2	---	1.90	107.0	---	1.06
PERIOD	4179.9		1278.76						

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DISH-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
JAN											
13...	1450	47	2.0	354	45	53	63	74	88	98	100
FEB											
19...	1510	9.6	--	22	.57	55	--	--	--	--	--
MAR											
27...	1530	5.1	7.0	25	.34	89	--	--	--	--	--
APR											
19...	1900	18	5.0	226	11	30	--	--	--	--	--
27...	2350	21	3.5	110	6.2	30	--	--	--	--	--
MAY											
04...	1730	32	6.0	317	27	32	--	--	--	--	--
06...	2215	34	3.0	108	9.9	24	--	--	--	--	--
10...	1425	18	3.5	25	1.2	57	--	--	--	--	--
19...	1515	22	10.5	67	4.0	25	--	--	--	--	--
21...	1745	58	5.0	530	83	32	--	--	--	--	--
JUN											
09...	1815	42	7.0	188	21	13	--	--	--	--	--
18...	1930	56	5.5	1790	271	12	17	37	71	95	100
19...	1715	31	8.5	176	15	25	--	--	--	--	--
22...	1800	52	8.0	199	28	20	--	--	--	--	--
24...	1745	95	9.0	1100	282	32	--	--	--	--	--
30...	1715	68	11.0	960	176	4	--	--	--	--	--
JUL											
03...	1910	52	10.0	78	11	29	--	--	--	--	--

10336710 MARLETTE LAKE NEAR CARSON CITY, NV

LOCATION.--Lat 39°10'22", long 119°54'15", in SW¼SE¼ sec.12, T.15 N., R.18 E., Washoe County, Hydrologic Unit 16050101, in Toiyabe National Forest, on west shore, about 1,000 ft (300 m) upstream from left side of dam, and 7.5 mi (12.1 km) west of Carson City.

DRAINAGE AREA.--2.86 mi^2 (7.41 km^2), revised.

PERIOD OF RECORD.--November 1973 to current year.

REVISED RECORDS.--WDR NV-79-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (spillway elevation furnished in written communication from Walter Reid, 1971).

REMARKS.--Lake is formed by earthfill dam across the outlet of a small natural lake (at one time called Goodwin Lake) on Marlette Creek, built in 1873 to provide water for fluming lumber from Spooner Summit to Carson City. The dam was built higher in 1876 and used to divert water by flume and siphon to Virginia City, until the flume was abandoned prior to 1963. The dam was raised to its present elevation in 1959. Present capacity, 11,780 acre-ft (14.5 hm^3) at spillway elevation 7,838.0 ft (2,389.02 m). Figures given herein represent total contents. Stored water is used for spawning fish for Pyramid and Walker Lakes and in dry years is pumped over the mountain to the Hobart system for municipal and domestic use outside the basin in Virginia City and Carson City. Lake freezes over in winter.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 12,160 acre-ft (15.0 hm^3) Jan. 14-16, 1980, elevation, 7,838.87 ft (2,389.29 m); minimum, 10,970 acre-ft (13.5 hm^3) Nov. 10-13, 1976, elevation, 7,835.8 ft (2,388.35 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 12,160 acre-ft (15.0 hm^3) Jan. 14-16, elevation, 7,838.87 ft (2,389.29 m); minimum, 11,520 acre-ft (14.2 hm^3) Oct. 19, elevation, 7,837.29 ft (2,388.81 m).

Capacity table (elevation, in feet, and contents, in acre-feet)

7,837	11,410
7,838	11,790

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11570	11550	11610	11880	12010	12040	11970	12060	12120	12000	11910	11790
2	11580	11550	11610	11890	12010	12040	11960	12060	12110	12020	11910	11790
3	11570	11560	11610	11890	12000	12040	11950	12070	12100	12020	11900	11790
4	11570	11560	11610	11890	12000	12060	11940	12090	12100	12010	11890	11790
5	11570	11560	11610	11890	12000	12060	11940	12090	12100	12010	11890	11810
6	11570	11560	11610	11890	11980	12060	11950	12100	12090	12010	11880	11810
7	11570	11560	11610	11890	11990	12080	11950	12110	12090	12010	11880	11810
8	11560	11560	11610	11900	11980	12060	11950	12100	12090	12000	11870	11810
9	11560	11560	11610	11960	11980	12050	11960	12120	12080	11990	11860	11810
10	11560	11560	11610	11990	11980	12040	11960	12130	12070	12000	11860	11810
11	11560	11560	11610	12040	11970	12030	11970	12130	12060	11990	11850	11820
12	11550	11570	11610	12080	11970	12040	11970	12130	12060	11990	11850	11810
13	11550	11570	11610	12110	11970	12030	11980	12120	12050	11990	11850	11800
14	11550	11570	11610	12160	11970	12030	11980	12120	12050	11990	11840	11800
15	11550	11570	11620	12160	12000	12010	11990	12110	12050	11990	11840	11800
16	11550	11560	11620	12160	12010	12010	11990	12110	12050	11980	11840	11800
17	11550	11570	11620	12150	12010	12000	11990	12110	12040	11980	11830	11800
18	11540	11570	11620	12140	12050	12000	12000	12110	12040	11970	11830	11790
19	11520	11570	11620	12120	12100	12000	12000	12130	12030	11970	11830	11790
20	11560	11570	11620	12100	12150	11990	12010	12140	12030	11970	11820	11790
21	11560	11570	11630	12090	12150	12020	12020	12150	12020	11970	11820	11790
22	11550	11580	11650	12080	12140	12020	12030	12140	12010	11960	11820	11790
23	11550	11580	11660	12060	12120	12020	12030	12150	12010	11960	11820	11790
24	11550	11580	11730	12060	12100	12010	12030	12150	12010	11950	11820	11780
25	11560	11580	11770	12040	12090	12000	12030	12150	12010	11950	11820	11780
26	11560	11600	11770	12030	12070	12000	12040	12140	12000	11940	11810	11780
27	11560	11600	11770	12020	12070	12000	12040	12130	12000	11940	11810	11780
28	11550	11600	11780	12030	12060	11990	12050	12130	12000	11930	11810	11780
29	11550	11600	11780	12030	12050	11990	12050	12130	12000	11930	11800	11770
30	11550	11600	11810	12020	---	11980	12060	12130	12000	11930	11790	11780
31	11550	---	11850	12020	---	11970	---	12130	---	11920	11790	---
MAX	11580	11600	11850	12160	12150	12080	12060	12150	12120	12020	11910	11820
MIN	11520	11550	11610	11880	11970	11970	11940	12060	12000	11920	11790	11770
†	7837.38	7837.51	7838.14	7838.54	7838.62	7838.42	7838.63	7838.80	7838.50	7838.31	7838.01	7837.97
‡	-30	+50	+250	+170	+30	-80	+90	+70	-130	-80	-130	-10

CAL YR 1979 MAX 12070 MIN 11520 ‡ -90
WTR YR 1980 MAX 12160 MIN 11520 ‡ +200

† Elevation, in feet NGVD, at end of month.
‡ Change in contents, in acre-feet.

10336715 MARLETTE CREEK NEAR CARSON CITY, NV

LOCATION.--Lat 39°10'20", long 119°54'25", in SE¼SW¼ sec.12, T.15 N., R.18 E., Washoe County, Hydrologic Unit 16050101, in Toiyabe National Forest, on left bank about 300 ft (90 m) below dam on Marlette Lake, 0.7 mi (1.1 km) upstream from Marlette Reservoir, and 7 mi (11 km) west of Carson City.

DRAINAGE AREA.--2.86 mi^2 (7.41 km^2), revised.

PERIOD OF RECORD.--October 1973 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,760 ft (2,365 m), from topographic map.

REMARKS.--Records fair. Flow regulated by Marlette Lake. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--7 years, 2.14 ft^3/s (0.0606 m^3/s), 1,550 acre-ft/yr (1.91 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19 ft^3/s (0.538 m^3/s) Jan. 12, 1980, gage height, 2.64 (0.805 m); no flow July 12-15, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 19 ft^3/s (0.538 m^3/s) Jan. 12, gage height, 2.64 ft (0.805 m); minimum daily, 0.02 ft^3/s (0.0006 m^3/s) Dec. 24, 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.04	.03	.03	.05	3.5	5.7	2.7	6.0	10	2.2	1.0	.04
2	.04	.03	.03	.03	3.3	5.6	3.1	6.3	11	2.4	.91	.04
3	.04	.03	.03	.36	3.2	5.8	2.8	6.5	10	2.6	.76	.04
4	.04	.03	.03	.39	3.1	6.0	2.7	6.3	10	2.6	.67	.04
5	.04	.03	.03	.40	3.0	6.5	4.1	7.1	9.8	2.4	.62	.04
6	.04	.03	.03	.39	3.0	6.8	4.6	7.4	9.2	2.4	.56	.03
7	.04	.03	.03	.42	3.3	7.5	3.8	8.0	8.8	2.3	.53	.03
8	.04	.03	.03	.44	3.0	6.6	3.4	9.0	8.5	2.2	.49	.03
9	.04	.03	.03	.64	2.7	6.0	3.3	10	8.2	2.1	.41	.03
10	.04	.03	.03	3.4	2.6	5.7	3.0	11	8.1	1.9	.33	.03
11	.04	.03	.03	4.8	2.5	5.7	2.9	12	7.8	1.9	.31	.03
12	.04	.03	.03	8.8	2.4	5.6	2.7	12	6.8	1.8	.24	.06
13	.04	.03	.03	12	2.3	5.2	2.7	11	6.2	1.7	.20	.14
14	.04	.03	.04	14	2.5	5.0	2.7	10	6.0	1.7	.16	.05
15	.04	.03	.03	13	3.3	4.4	2.6	10	5.7	1.6	.11	.04
16	.04	.03	.04	13	3.6	3.9	2.7	9.8	5.0	1.6	.09	.04
17	.04	.03	.04	13	4.4	3.8	2.7	9.8	5.1	1.5	.08	.03
18	.04	.03	.03	13	6.8	3.7	2.9	7.8	4.8	1.4	.19	.05
19	.04	.03	.03	11	9.5	3.4	3.1	5.8	4.6	1.3	.05	.05
20	.04	.03	.03	10	10	3.4	3.5	6.7	4.4	1.2	.05	.06
21	.04	.03	.03	9.0	12	4.2	4.1	8.3	3.9	1.1	.05	.04
22	.04	.03	.03	7.8	12	4.6	4.5	11	3.2	1.4	.04	.04
23	.04	.03	.03	6.9	11	4.1	4.6	11	3.0	1.6	.04	.04
24	.04	.03	.02	6.1	9.9	3.9	4.5	11	2.8	1.5	.04	.04
25	.04	.03	.02	5.6	8.6	3.6	4.4	10	2.7	1.4	.04	.04
26	.04	.03	.03	5.6	7.3	3.4	4.8	10	2.6	1.3	.05	.04
27	.04	.03	.03	5.0	6.5	3.2	4.9	9.7	2.3	1.3	.04	.04
28	.04	.03	.03	4.5	6.7	3.0	5.2	9.5	2.2	1.3	.04	.04
29	.04	.03	.03	4.2	6.1	2.9	5.5	9.5	2.2	1.3	.06	.03
30	.04	.03	.03	3.9	---	2.7	5.9	9.4	2.2	1.2	.04	.03
31	.04	---	.03	3.7	---	2.6	---	9.4	---	1.1	.04	---
TOTAL	1.24	.90	.94	181.42	158.1	144.5	110.4	281.3	177.1	53.3	8.24	1.28
MEAN	.040	.030	.030	5.85	5.45	4.66	3.68	9.07	5.90	1.72	.27	.043
MAX	.04	.03	.04	14	12	7.5	5.9	12	11	2.6	1.0	.14
MIN	.04	.03	.02	.03	2.3	2.6	2.6	5.8	2.2	1.1	.04	.03
AC-FT	2.5	1.8	1.9	360	314	287	219	558	351	106	16	2.5

CAL YR 1979 TOTAL 681.61 MEAN 1.87 MAX 8.7 MIN .02 AC-FT 1350
WTR YR 1980 TOTAL 1118.72 MEAN 3.06 MAX 14 MIN .02 AC-FT 2220

BEST DOCUMENT AVAILABLE

10336780 TROUT CREEK NEAR TAHOE VALLEY, CA

LOCATION.--Lat 38°55'12", long 119°58'17", in NW¼SE¼ sec.3, T.12 N., R.18 E., El Dorado County, Hydrologic Unit 16050101, on left bank 5 ft (1.52 m) upstream from Martin Avenue Bridge, 500 ft (152 m) upstream from Heavenly Valley Creek, and 1.8 mi (2.9 km) east of Tahoe Valley.

DRAINAGE AREA.--36.7 mi^2 (95.05 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1960 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,250 ft (1,905 m), from topographic map.

REMARKS.--Records good except those for the winter periods, which are fair. Minor diversions for local water supply.

AVERAGE DISCHARGE.--20 years, 35.4 ft^3/s (1.003 m^3/s), 25,650 acre-ft/yr (31.6 hm^3/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 535 ft^3/s (15.2 m^3/s) Feb. 1, 1963, gage height, 11.14 ft (3.395 m), from rating curve extended above 250 ft^3/s (7.08 m^3/s) on basis of computation of peak flow (weir formula); no flow for part of Sept. 11, 1966.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 100 ft^3/s (2.83 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 13	2345	*337	9.54	10.24	3.121
May 7	0015	136	3.85	7.83	2.387
May 22	2245	148	4.19	8.00	2.438
June 21	0200	162	4.59	8.18	2.493

Minimum daily, 9.7 ft^3/s (0.27 m^3/s) Oct. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.8	13	14	20	28	34	30	96	101	147	59	29
2	9.7	15	14	18	27	33	29	100	102	156	57	29
3	9.8	16	14	16	27	33	29	108	98	150	55	28
4	9.9	17	14	16	27	32	29	119	101	138	53	27
5	9.9	16	14	16	27	32	33	119	95	131	52	27
6	9.9	16	14	16	28	32	31	124	93	124	50	26
7	9.8	16	14	15	26	31	30	125	96	119	49	30
8	10	16	14	15	26	32	31	121	103	113	47	39
9	11	15	14	15	26	32	35	119	111	108	45	33
10	10	15	14	16	26	32	37	109	117	104	44	30
11	10	16	12	20	26	30	38	101	122	101	42	28
12	11	15	12	137	26	32	40	94	124	98	41	28
13	11	16	13	254	26	30	47	93	122	96	41	26
14	11	15	12	196	26	30	53	93	119	94	39	26
15	11	16	12	98	29	29	53	93	124	90	39	25
16	11	16	12	85	31	30	58	96	131	87	39	24
17	11	17	12	72	44	31	66	103	138	87	46	24
18	12	16	12	60	79	31	72	109	146	85	41	24
19	24	11	12	52	56	30	77	118	151	82	39	24
20	24	14	13	47	47	30	81	126	154	79	38	23
21	18	14	13	43	29	30	77	133	156	78	38	23
22	17	15	13	41	44	29	69	137	154	76	40	23
23	18	16	13	39	40	30	63	134	150	74	45	22
24	17	17	13	37	37	32	65	120	147	72	42	22
25	21	19	13	35	35	32	71	113	146	70	37	22
26	19	22	13	33	35	33	75	107	144	68	34	21
27	16	16	14	31	36	28	81	102	140	67	33	21
28	15	15	14	31	37	29	88	102	137	67	31	20
29	14	15	15	30	35	30	96	104	141	66	31	20
30	14	14	16	29	---	32	99	103	146	63	30	20
31	14	---	23	28	---	31	---	101	---	61	30	---
TOTAL	418.8	470	422	1561	986	962	1683	3422	3809	2951	1307	764
EAN	13.5	15.7	13.6	50.4	34.0	31.0	56.1	110	127	95.2	42.2	25.5
AX	24	22	23	254	79	34	99	137	156	156	59	39
IN	9.7	11	12	15	26	28	29	93	93	61	30	20
C-FT	831	932	837	3100	1960	1910	3340	6790	7560	5850	2590	1520

AL YR 1979 TOTAL 9944.3 MEAN 27.2 MAX 110 MIN 9.7 AC-FT 19720

TR YR 1980 TOTAL 18755.8 MEAN 51.2 MAX 254 MIN 9.7 AC-FT 37200

BEST DOCUMENT AVAILABLE

10336780 TROUT CREEK NEAR TAHOE VALLEY, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1974, 1978, 1980.
WATER TEMPERATURES: Water years 1974, 1978, March to September 1980.
SEDIMENT RECORDS: Water years 1974, 1978, March to September 1980.

PERIOD OF DAILY RECORD.--
SEDIMENT RECORDS: October 1973 to September 1974, October 1977 to June 1978, March to September 1980.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 223 mg/L July 9, 1974; minimum daily mean, 0 mg/L Oct. 15, 16, 1973.
SEDIMENT DISCHARGE: Maximum daily, 67 tons (61 metric tons) July 9, 1974; minimum daily, 0 ton (0 metric ton) Oct. 15, 16, 1973.

EXTREMES FOR PERIOD.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 150 mg/L May 4; minimum daily mean, 4 mg/L on several days during March.
SEDIMENT DISCHARGE: Maximum daily, 48 tons (44 metric tons) May 4; minimum daily, 0.31 ton (0.28 metric ton) Mar. 15, 22.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						---	---	6.0	7.0	---	---	---
2						---	---	9.0	5.5	9.0	---	---
3						---	---	5.5	8.0	---	---	---
4						---	4.5	5.0	7.0	---	---	---
5						---	---	6.0	6.0	---	---	---
6						---	---	6.0	---	7.0	---	---
7						---	---	---	---	---	9.0	---
8						---	8.0	---	---	---	---	13.0
9						---	---	5.0	7.5	---	---	---
10						1.5	---	4.0	5.0	12.5	---	---
11						---	6.0	4.0	6.5	---	---	---
12						---	---	6.0	4.5	---	---	---
13						---	---	4.5	4.5	---	---	---
14						4.0	9.5	4.0	---	13.0	11.0	7.0
15						---	---	4.0	11.0	---	---	---
16						---	8.5	9.0	11.0	---	---	---
17						---	---	5.0	11.5	---	---	---
18						---	6.0	10.0	11.0	---	---	---
19						---	9.0	7.5	6.0	---	---	---
20						4.0	7.5	9.5	7.0	---	---	---
21						---	3.5	9.0	---	---	---	---
22						---	4.0	6.5	---	---	---	---
23						---	5.0	4.5	7.5	---	10.0	11.0
24						---	---	3.5	10.0	14.5	---	---
25						.5	6.5	3.5	11.0	---	---	---
26						---	6.0	---	11.0	---	12.0	---
27						---	6.5	4.5	11.0	---	---	---
28						---	6.0	5.5	7.0	---	---	---
29						---	5.5	7.0	12.0	---	---	---
30						---	5.0	8.5	9.0	---	9.0	---
31						---	---	8.5	---	---	---	---
MEAN						2.5	6.5	6.0	8.0	11.0	10.0	10.5

10336780 TROUT CREEK NEAR TAHOE VALLEY, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JANUARY			FEBRUARY			MARCH	
1							34	5	.46
2							33	5	.45
3							33	5	.45
4							32	5	.43
5							32	5	.43
6							32	5	.43
7							31	5	.42
8							32	5	.43
9							32	4	.35
10							32	4	.35
11							30	4	.32
12							32	4	.35
13							30	4	.32
14							30	4	.32
15							29	4	.31
16							30	4	.32
17							31	4	.33
18							31	4	.33
19							30	4	.32
20							30	4	.32
21							30	4	.32
22							29	4	.31
23							30	4	.32
24							32	4	.35
25							32	5	.43
26							33	5	.45
27							28	5	.38
28							29	5	.39
29							30	5	.41
30							32	5	.43
31							31	5	.42
TOTAL							962	---	11.65

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1	30	5	.41	96	100	26	101	48	13
2	29	5	.39	100	100	27	102	50	14
3	29	5	.39	108	140	41	98	40	11
4	29	5	.39	119	150	48	101	35	9.5
5	33	7	.62	119	130	42	95	33	8.5
6	31	6	.50	124	125	42	93	28	7.0
7	30	10	.81	125	115	39	96	35	9.1
8	31	11	.92	121	85	28	103	52	14
9	35	14	1.3	119	55	18	111	70	21
10	37	16	1.6	109	50	15	117	55	17
11	38	20	2.1	101	45	12	122	60	20
12	40	22	2.4	94	40	10	124	55	18
13	47	28	3.6	93	48	12	122	50	16
14	53	30	4.3	93	57	14	119	53	17
15	53	28	4.0	93	50	13	124	55	18
16	58	30	4.7	96	55	14	131	60	21
17	66	35	6.2	103	48	13	138	75	28
18	72	55	11	109	60	18	146	80	32
19	77	57	12	118	70	22	151	70	29
20	81	50	11	126	75	26	154	70	29
21	77	45	9.4	133	78	28	156	75	32
22	69	34	6.3	137	70	26	154	70	29
23	63	25	4.3	134	52	19	150	65	26
24	65	25	4.4	120	47	15	147	65	26
25	71	30	5.8	113	47	14	146	60	24
26	75	45	9.1	107	40	12	144	60	23
27	81	55	12	102	40	11	140	65	25
28	88	65	15	102	42	12	137	50	18
29	96	110	29	104	50	14	141	60	23
30	99	145	39	103	55	15	146	60	24
31	---	---	---	101	50	14	---	---	---
TOTAL	1683	---	202.93	3422	---	660	3809	---	602.1

10336780 TROUT CREEK NEAR TAHOE VALLEY, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JULY			AUGUST			SEPTEMBER	
1	147	55	22	59	17	2.7	29	8	.63
2	156	62	26	57	17	2.6	29	8	.63
3	150	60	24	55	17	2.5	28	8	.60
4	138	58	22	53	16	2.3	27	8	.58
5	131	57	20	52	16	2.2	27	8	.58
6	124	57	19	50	16	2.2	26	8	.56
7	119	55	18	49	16	2.1	30	12	.97
8	113	55	17	47	15	1.9	39	17	1.8
9	108	55	16	45	15	1.8	33	14	1.2
10	104	54	15	44	14	1.7	30	14	1.1
11	101	54	15	42	14	1.6	28	14	1.1
12	98	57	15	41	13	1.4	28	14	1.1
13	96	57	15	41	13	1.4	26	14	.98
14	94	57	14	39	13	1.4	26	14	.98
15	90	56	14	39	13	1.4	25	13	.88
16	87	53	12	39	13	1.4	24	13	.84
17	87	50	12	46	14	1.7	24	12	.78
18	85	47	11	41	14	1.5	24	12	.78
19	82	43	9.5	39	14	1.5	24	11	.71
20	79	39	8.3	38	14	1.4	23	11	.68
21	78	35	7.4	38	14	1.4	23	10	.62
22	76	30	6.2	40	15	1.6	23	10	.62
23	74	25	5.0	45	15	1.8	22	9	.53
24	72	20	3.9	42	15	1.7	22	9	.53
25	70	18	3.4	37	15	1.5	22	8	.48
26	68	18	3.3	34	15	1.4	21	8	.45
27	67	18	3.3	33	13	1.2	21	7	.40
28	67	18	3.3	31	11	.92	20	7	.38
29	66	17	3.0	31	10	.84	20	6	.32
30	63	17	2.9	30	8	.65	20	6	.32
31	61	17	2.8	30	8	.65	---	---	---
TOTAL	2951	---	369.3	1307	---	50.36	764	---	22.11
PERIOD	14898		1918.47						

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
APR											
21...	0915	77	3.5	42	8.7	38	--	--	--	--	--
25...	1105	68	5.5	22	4.0	40	--	--	--	--	--
28...	1145	82	6.0	51	11	34	--	--	--	--	--
30...	0001	109	5.0	228	67	19	--	--	--	--	--
MAY											
03...	0005	114	5.0	106	33	29	--	--	--	--	--
10...	1330	107	4.0	45	13	26	--	--	--	--	--
18...	1740	108	10.0	70	20	27	--	--	--	--	--
21...	2315	141	6.5	66	25	36	--	--	--	--	--
24...	1755	118	3.5	61	19	20	--	--	--	--	--
29...	1310	100	7.0	19	5.1	31	38	70	93	96	100
JUN											
10...	0030	124	5.0	67	22	27	--	--	--	--	--
16...	1840	126	11.0	60	20	34	--	--	--	--	--
23...	1150	150	7.5	61	25	38	--	--	--	--	--
24...	1510	143	10.0	60	23	31	--	--	--	--	--
27...	0600	144	6.0	83	32	100	--	--	--	--	--
JUL											
02...	1700	154	9.0	59	25	100	--	--	--	--	--

BEST DOCUMENT AVAILABLE

10337000 LAKE TAHOE AT TAHOE CITY, CA

LOCATION.--Lat 39°10'51", long 120°07'06", in NE1/4NE1/4 sec.5, T.15 N., R.17 E., Placer County, Hydrologic Unit 16050101, on U.S. Coast Guard pier at Lake Forest, 1.1 mi (1.8 km) northeast of Tahoe City, and 1.8 mi (2.9 km) northeast of Lake Tahoe outlet dam on Truckee River at Tahoe City.

DRAINAGE AREA.--506 mi² (1,311 km²), at lake outlet.

LAKE-ELEVATION RECORDS

PERIOD OF RECORD.--April 1900 to current year. Monthend elevations only for October 1943 to September 1957, published in WSP 1714. Prior to October 1961, published as "at Tahoe."

REVISED RECORDS.--WDR NV-79-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,220.00 ft (1,895.856 m) Water and Power Resources Service datum, 6,218.46 ft (1,895.388 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1957, nonrecording gages at several sites near outlet of lake at same datum. Oct. 1, 1957, to May 8, 1958, water-stage recorder on left wingwall of dam at outlet of lake at same datum. May 9, 1958, to Sept. 30, 1968, water-stage recorder on pier, 1,000 ft (300 m) east of dam at lake outlet.

REMARKS.--Lake levels regulated by a 17-gate concrete dam at outlet of lake; storage began about 1874. Monthly figures given herein represent usable contents. Usable capacity, 744,600 acre-ft (918 hm³) between elevations 6,223 ft (1,896.8 m), natural rim of lake and 6,229.1 ft (1,898.63 m), maximum permissible elevation by Federal Court decree. Lake elevations are referred to Water and Power Resources Services datum is used as the official reference point by all local, State, and Federal agencies. There are minor diversions for domestic purposes, irrigation, and power.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 6,231.26 ft (1,899.288 m) July 14, 15, 17, 18, 1907; minimum, 6,221.74 ft (1,896.386 m) Dec. 26, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 6,227.32 ft (1,898.087 m) July 21; minimum, 6,223.28 ft (1,896.856 m) Dec. 18, 20.

Capacity table (elevation, in feet, and contents, in acre-feet)

6223	0	6227	486800
6224	121400	6228	609300
6225	243000	6229	732300
6226	364800		

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.83	3.55	3.36	3.69	4.82	5.50	5.65	6.03	6.72	7.16	7.25	6.74
2	3.82	3.53	3.36	3.68	4.82	5.53	5.64	6.05	6.73	7.22	7.23	6.73
3	3.81	3.55	3.37	3.68	4.82	5.55	5.63	6.09	6.73	7.24	7.23	6.72
4	3.80	3.52	3.36	3.68	4.82	5.58	5.63	6.13	6.77	7.25	7.21	6.71
5	3.80	3.52	3.36	3.68	4.82	5.61	5.73	6.16	6.78	7.26	7.18	6.70
6	3.79	3.49	3.36	3.68	4.82	5.62	5.70	6.19	6.78	7.27	7.16	6.68
7	3.78	3.49	3.35	3.69	4.82	5.62	5.71	6.23	6.79	7.27	7.16	6.68
8	3.76	3.48	3.34	3.67	4.80	5.62	5.72	6.29	6.81	7.28	7.15	6.68
9	3.75	3.47	3.34	3.77	4.80	5.62	5.71	6.33	6.83	7.28	7.12	6.66
10	3.73	3.46	3.33	3.77	4.80	5.62	5.71	6.38	6.83	7.28	7.12	6.65
11	3.72	[illegible]	3.31	3.88	4.80	5.64	5.71	6.35	6.88	7.28	7.10	6.65
12	3.72	[illegible]	3.31	4.15	4.80	5.65	5.71	6.37	6.87	7.29	7.09	6.62
13	3.69	3.45	3.31	4.53	4.80	5.65	5.72	6.40	6.87	7.30	7.05	6.62
14	3.68	3.45	3.31	4.66	4.85	5.68	5.72	6.42	6.88	7.30	7.04	6.56
15	3.68	3.44	3.30	4.71	4.88	5.62	5.73	6.43	6.89	7.31	7.03	6.57
16	3.67	3.41	3.30	4.77	4.93	5.61	5.74	6.44	6.91	7.31	7.03	6.56
17	3.66	3.43	3.30	4.82	5.02	5.64	5.75	6.46	6.93	7.31	7.02	6.53
18	3.65	3.41	3.28	4.83	5.13	5.64	5.76	6.48	6.95	7.30	7.00	6.56
19	3.69	3.41	3.28	4.82	5.25	5.61	5.79	6.51	6.98	7.31	6.95	6.50
20	3.68	3.37	3.28	4.82	5.31	5.63	5.80	6.54	7.00	7.31	6.96	6.49
21	3.66	3.37	3.31	4.82	5.42	5.65	5.81	6.58	7.01	7.32	6.92	6.49
22	3.64	3.36	3.31	4.82	5.44	5.65	5.83	6.60	7.00	7.31	6.94	6.47
23	3.64	3.38	3.41	4.83	5.44	5.64	5.85	6.62	7.03	7.31	6.88	6.45
24	3.61	3.37	3.54	4.83	5.44	5.64	5.86	6.64	7.04	7.30	6.88	6.44
25	3.66	3.43	3.56	4.84	5.44	5.64	5.88	6.65	7.04	7.30	6.89	6.43
26	3.62	3.40	3.58	4.83	5.46	5.63	5.90	6.65	7.08	7.30	6.84	6.41
27	3.61	3.38	3.52	4.82	5.51	5.64	5.92	6.67	7.08	7.30	6.84	6.41
28	3.61	3.38	3.52	4.83	5.49	5.63	5.94	6.69	7.09	7.30	6.80	6.40
29	3.58	3.38	3.52	4.82	5.49	5.61	5.97	6.70	7.12	7.28	6.77	6.40
30	3.57	3.38	3.59	4.83	---	5.63	5.98	6.72	7.14	7.28	6.76	6.39
31	3.56	---	3.69	4.82	---	5.61	---	6.73	---	7.26	6.75	---
MAX	3.83	3.55	3.69	4.84	5.51	5.68	5.98	6.73	7.14	7.32	7.25	6.74
MIN	3.56	3.36	3.28	3.67	4.80	5.50	5.63	6.03	6.72	7.16	6.75	6.39
†	68000	46200	83800	221100	302700	317300	362400	453900	503900	518700	456300	412400
‡	-32800	-21800	+37600	+137300	+81600	+14600	+45100	+91500	+50000	+14800	-62400	-43900

CAL YR 1979   MAX 5.14   MIN 3.28   ‡ +29200
WTR YR 1980   MAX 7.32   MIN 3.28   ‡ +311600

† Usable contents, in acre-feet, at end of month.
‡ Change in contents, in acre-feet.

NOTE.--Add 6,220 feet to obtain elevation above mean sea level, Bureau of Reclamation datum at 2400 hours.

10337500 TRUCKEE RIVER AT TAHOE CITY, CA

LOCATION.--Lat 39°09'59", long 120°08'36", in NE¼NW¼ sec.7, T.15 N., R.17 E., Placer County, Hydrologic Unit 16050101, on left bank 510 ft (155 m) downstream from dam at outlet of Lake Tahoe at Tahoe City.

DRAINAGE AREA.--507 mi^2 (1,313 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1895 to February 1896, March 1900 to current year. Monthly discharge only for some periods, published in WSP 1314 and 1734. Prior to October 1961, published as "at Tahoe."

REVISED RECORDS.--WDR NV-79-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,216.59 ft (1,894.817 m), revised, National Geodetic Vertical Datum of 1929. Prior to Nov. 12, 1912, nonrecording gage at site 370 ft (113 m) upstream at different datum. Nov. 12, 1912, to Sept. 30, 1937, nonrecording gage, Oct. 1, 1937, to Aug. 21, 1957, water-stage recorder at datum 2.26 ft (0.689 m) higher and Aug. 22, 1957, to July 10, 1960, at datum 2.42 ft (0.738 m) higher; all at site 270 ft (82 m) upstream.

REMARKS.--Records good. Flow regulated by Lake Tahoe, operating capacity, 744,600 acre-ft (918 hm^3). There are several diversions for irrigation, power, and domestic water supply. In addition, sewer effluent is pumped from the Lake Tahoe basin. Discharge prior to Jan. 27, 1978, is local inflow between the dam and the station.

AVERAGE DISCHARGE (unadjusted).--80 years (water years 1901-80), 243 ft^3/s (6.882 m^3/s), 176,100 acre-ft/yr (217 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,630 ft^3/s (74.5 m^3/s) June 19, 1969, gage height, 9.32 ft (2.841 m); no flow for parts of many years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 340 ft^3/s (9.63 m^3/s) Aug. 6, gage height 4.23 ft (1.289 m); minimum daily, 17 ft^3/s (0.48 m^3/s) Dec. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	71	27	114	71	49	63	59	67	79	249	261
2	45	64	27	113	71	49	61	59	69	82	249	261
3	41	65	27	110	71	49	59	61	69	82	249	244
4	36	62	27	105	72	50	60	62	68	80	282	191
5	40	59	27	99	72	50	62	61	67	80	296	174
6	40	55	27	99	72	50	61	61	67	81	337	178
7	40	55	27	88	72	50	60	61	64	80	336	180
8	40	49	25	58	72	50	61	60	67	80	335	165
9	40	47	20	69	72	50	62	59	74	80	332	142
10	40	46	20	72	72	50	63	60	78	80	330	119
11	40	43	20	74	71	56	63	61	78	80	305	71
12	40	44	20	101	72	68	63	61	78	80	291	71
13	40	41	20	118	72	69	64	61	76	80	291	71
14	40	41	20	92	72	68	65	62	76	80	289	71
15	40	40	19	72	74	68	62	62	76	80	288	72
16	41	36	17	69	75	68	62	63	75	98	289	74
17	41	37	19	66	85	68	63	65	75	121	288	76
18	40	36	18	64	93	67	61	67	76	117	275	75
19	43	37	18	64	78	66	60	65	76	118	259	75
20	40	31	18	66	58	65	60	65	76	116	252	75
21	39	28	25	66	49	64	57	66	76	122	262	75
22	41	27	37	67	51	63	55	66	76	145	267	75
23	39	28	40	68	52	64	55	65	78	161	266	75
24	38	29	60	72	51	64	56	63	78	169	266	75
25	34	27	76	72	51	65	58	64	78	192	266	75
26	30	31	90	71	51	63	59	62	78	192	266	75
27	36	31	83	70	50	63	59	61	78	192	266	76
28	37	27	83	70	51	64	59	61	79	232	264	76
29	38	27	83	71	49	65	57	64	79	255	261	75
30	40	27	90	70	---	63	57	62	79	251	261	75
31	44	---	105	70	---	64	---	62	---	251	260	---
TOTAL	1238	1241	1215	2480	1922	1862	1807	1931	2231	3936	8727	3398
MEAN	39.9	41.4	39.2	80.0	66.3	60.1	60.2	62.3	74.4	127	282	113
MAX	55	71	105	118	93	69	65	67	79	255	337	261
MIN	30	27	17	58	49	49	55	59	64	79	249	71
AC-FT	2460	2460	2410	4920	3810	3690	3580	3830	4430	7810	17310	6740

CAL YR 1979 TOTAL 47967 MEAN 131 MAX 450 MIN 17 AC-FT 95140
WTR YR 1980 TOTAL 31988 MEAN 87.4 MAX 337 MIN 17 AC-FT 63450

BEST DOCUMENT AVAILABLE

10337500 TRUCKEE RIVER AT TAHOE CITY, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1960 to November 1962, May 1963 to current year.
CHEMICAL ANALYSES AND SPECIFIC CONDUCTANCES: February 1977 to current year, monthly.
WATER TEMPERATURES: April 1960 to November 1962, May 1963 to current year, monthly.

REMARKS.--All measurements and sample collections by California Department of Water Resources. Data prior to February 1978 are unpublished.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 147 micromhos Aug. 23, 1978; minimum, 92 micromhos June 26, 1979.
WATER TEMPERATURES: Maximum, 21.5°C July 21, 1960, Aug. 31, 1967; minimum, 0.5°C June 3, 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980**

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
OCT 29...	1500	40	95	7.8	10.5	9.5	3	--	30	9.0
NOV 29...	1215	27	94	7.7	8.5	10.0	--	--	30	9.0
DEC 26...	1230	114	97	7.5	4.5	10.3	--	--	30	9.0
JAN 24...	1230	72	96	7.9	3.0	10.1	--	--	30	9.0
FEB 26...	1115	E51	95	7.9	5.5	10.2	--	--	30	9.0
MAR 30...	1230	65	--	7.4	5.0	10.1	0	.80	--	--
APR 29...	1420	56	95	7.9	12.0	9.6	--	--	30	9.0
MAY 30...	0705	63	96	7.3	9.5	9.2	--	--	30	9.0
JUN 24...	1430	78	93	7.4	14.0	9.0	--	--	30	9.0
JUL 24...	1250	161	--	7.9	19.0	8.0	--	--	30	9.0
AUG 28...	1530	264	94	7.8	18.0	7.6	--	--	30	9.0
SEP 25...	1420	75	96	7.7	17.0	8.0	--	--	30	9.0

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY FIELD (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)
OCT 29...	2.0	6.0	.5	1.7	42	3.0	2.0	57.0	6.16
NOV 29...	2.0	6.0	.5	1.7	41	.0	2.0	77.0	5.61
DEC 26...	2.0	6.0	.3	1.6	42	3.0	2.0	64.0	19.7
JAN 24...	2.0	6.0	.5	1.7	42	.0	2.0	59.0	11.5
FEB 26...	2.0	6.0	--	1.7	42	1.0	2.0	64.0	E8.81
MAR 20...	--	--	--	--	--	.0	--	--	--
APR 29...	2.0	6.0	.5	1.7	42	2.0	2.0	58.0	8.77
MAY 30...	2.0	6.0	.5	1.7	41	2.0	2.0	60.0	10.2
JUN 24...	2.0	6.0	.5	1.7	41	2.0	2.0	51.0	10.7
JUL 24...	2.0	6.0	.5	1.7	41	1.0	2.0	92.0	40.0
AUG 28...	2.0	6.0	.5	1.8	41	1.0	2.0	67.0	47.[illegible]
SEP 25...	2.0	6.0	.5	1.7	41	1.0	2.0	57.0	11.5

E ESTIMATED.

* Data from Calif. Dept. of water resources.

BEST DOCUMENT AVAILABLE

10337500 TRUCKEE RIVER AT TAHOE CITY, CA

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980*

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT 29...	--	.00	.00	.10	.01	.00	--	--
NOV 29...	--	.01	.00	.10	.02	.00	--	--
DEC 26...	--	.00	.00	.30	.02	.00	--	--
JAN 24...	--	.00	.00	.20	.00	.00	--	--
FEB 26...	--	.00	.00	.20	.01	.00	--	--
MAR 20...	3	--	--	--	--	--	.5	.00
APR 29...	--	.01	.00	.00	.00	.00	--	--
MAY 30...	--	.01	.00	.00	.00	.00	--	--
JUN 24...	--	.01	.00	.00	.00	.00	--	--
JUL 24...	--	.00	.00	.00	.00	.00	--	--
AUG 28...	--	.02	.02	.10	.00	.00	--	--
SEP 25...	--	.00	.00	.00	.00	.00	--	--

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)
OCT 29...	1500	--	--	--	0	--	--
NOV 29...	1215	--	0	0	0	0	0
DEC 26...	1230	--	--	--	0	--	--
JAN 24...	1230	--	0	0	0	0	10
FEB 26...	1115	--	--	--	0	--	--
APR 29...	1420	--	--	--	0	--	--
MAY 30...	0705	--	0	0	0	0	0
JUN 24...	1430	--	--	--	0	--	--
JUL 24...	1250	--	0	0	0	0	0
AUG 28...	1530	--	--	--	100	--	--
SEP 25...	1420	0	--	0	0	0	0

DATE	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)
OCT 29...	--	--	--	--	--	--
NOV 29...	0	10	0	0	.0	0
DEC 26...	--	--	--	--	--	--
JAN 24...	0	0	0	0	.0	0
FEB 26...	--	--	--	--	--	--
APR 29...	--	--	--	--	--	--
MAY 30...	0	30	0	0	.0	0
JUN 24...	--	--	--	--	--	--
JUL 24...	0	20	0	0	.0	0
AUG 28...	--	--	--	--	--	--
SEP 25...	0	0	0	0	.0	10

* Data from Calif. Dept. of Water Resources.

10338000 TRUCKEE RIVER NEAR TRUCKEE, CA

LOCATION.--Lat 39°17'17", long 120°12'16", in SW¼NE¼ sec.28, T.17 N., R.16 E., Placer County, Hydrologic Unit 16050102, Tahoe National Forest, on left bank 1.4 mi (2.3 km) downstream from Cabin Creek and 2.5 mi (4.0 km) southwest of Truckee.

DRAINAGE AREA.--553 mi^2 (1,432 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1944 to September 1961, June 1977 to current year. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WDR NV-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,860 ft (1,786 m), from topographic map.

REMARKS.--Records good. Flow regulated by Lake Tahoe (station 10337000), operating capacity, 744,600 acre-ft (918 hm^3).

AVERAGE DISCHARGE.--19 years (water years 1946-61, 1978-80), 324 ft^3/s (9.18 m^3/s), 234,700 acre-ft/yr (289 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,760 ft^3/s (220 m^3/s) Dec. 23, 1955, gage height, 7.92 ft (2.414 m) from rating curve extended above 2,500 ft^3/s (70.8 m^3/s) on basis of slope-area measurements at gage heights 7.62 ft (2.323 m) and 7.92 ft (2.414 m); minimum daily, 7.7 ft^3/s (0.22 m^3/s) Nov 19, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,900 ft^3/s (139 m^3/s) Jan. 13, gage height, 6.79 ft (2.070 m); minimum daily 37 ft^3/s (1.05 m^3/s) Dec. 16, 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	75	63	227	145	161	152	578	392	354	289	286
2	52	82	56	177	142	159	148	601	404	428	282	285
3	49	86	50	165	141	156	139	666	358	379	278	275
4	42	88	50	156	141	152	137	722	349	324	286	230
5	43	80	49	149	145	151	150	702	326	292	311	192
6	45	80	47	143	153	144	141	710	299	269	358	196
7	45	76	45	139	150	138	137	662	307	260	357	197
8	45	75	45	89	145	133	138	626	352	246	355	189
9	45	70	43	109	142	131	151	578	396	235	354	164
10	45	70	42	108	140	134	167	484	420	227	353	149
11	45	65	38	137	138	139	178	419	421	222	336	88
12	45	65	40	1410	136	145	191	373	403	218	314	85
13	45	63	38	3000	135	146	244	353	365	212	312	83
14	45	63	38	1520	146	146	318	354	344	207	311	82
15	47	58	38	667	162	144	336	379	374	200	311	84
16	45	56	37	528	171	139	357	427	408	203	311	85
17	45	61	38	439	359	144	412	468	432	226	311	86
18	45	63	40	344	639	146	460	500	439	215	304	86
19	121	56	38	290	442	141	506	572	422	203	286	86
20	99	50	37	254	332	141	545	638	406	199	275	86
21	65	45	43	226	270	140	494	680	387	202	285	86
22	58	45	42	208	229	135	408	665	362	214	290	86
23	54	49	43	194	210	133	373	551	342	233	291	85
24	50	52	48	189	197	131	418	437	339	229	291	87
25	88	57	54	185	184	129	454	377	342	250	289	87
26	77	62	64	178	178	127	494	342	331	243	289	87
27	61	68	73	171	177	127	540	324	311	241	288	87
28	61	70	93	167	176	130	598	316	320	267	286	86
29	56	67	93	158	166	139	642	331	346	300	284	86
30	58	65	123	151	---	154	626	353	348	296	284	84
31	56	---	225	148	---	154	---	391	---	293	284	---
TOTAL	1742	1962	1773	12026	5991	4389	10054	15579	11045	7887	9455	3875
MEAN	56.2	65.4	57.2	388	203	142	335	503	368	254	305	129
MAX	121	88	225	3000	639	161	642	722	439	428	358	286
MIN	42	45	37	89	135	127	137	316	299	199	275	82
AC-FT	3460	3890	3520	23850	11680	8710	19940	30900	21910	15640	18750	7690

CAL YR 1979 TOTAL 73992 MEAN 203 MAX 535 MIN 37 AC-FT 146800
WTR YR 1980 TOTAL 85678 MEAN 234 MAX 3000 MIN 37 AC-FT 169900

10338000 TRUCKEE RIVER NEAR TRUCKEE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1951 to May 1966, July 1977 to current year.
CHEMICAL ANALYSES: April 1951 to September 1952, occasional; October 1952 to September 1958, monthly (seasonal); October 1958 to September 1963, monthly; November 1963 to May 1966, bi-monthly.
SPECIFIC CONDUCTANCE: April 1951 to September 1952, occasional; October 1952 to September 1958, monthly (seasonal); October 1958 to September 1963, monthly; November 1963 to May 1966, bi-monthly; July 1977 to current year, hourly.
WATER TEMPERATURES: July 1977 to current year, hourly.

INSTRUMENTATION.--Water-quality monitor recording specific conductance and water temperature since July 1977.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum recorded, 231 micromhos Oct. 14, 1977; minimum recorded, 38 micromhos Jan. 13, 1980.
WATER TEMPERATURES: Maximum recorded, 24.0°C Aug. 4, 1978; minimum recorded, freezing point on several days during winter months of most years.

REMARKS.--Specific conductance monitor malfunctioned Jan. 14 to Mar. 3 and June 10-30, July 1-2. Water temperature monitor malfunctioned Feb. 9-29, Mar. 1-3, Jan. 10-30, July 1-2.

EXTREMES FOR CURRENT YEAR (MEASUREMENTS AT LEAST ONCE-DAILY).--
SPECIFIC CONDUCTANCES: Maximum recorded, 147 micromhos Dec. 12; minimum recorded, 38 micromhos Jan. 13.
WATER TEMPERATURES: Maximum recorded 22.5°C July 30; minimum recorded, freezing point on several days during winter months.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	105	105	118	95		---	104	59	69	---	88	94
2	107	103	123	101		---	103	57	68	---	89	94
3	109	103	121	103		---	107	54	72	53	90	94
4	112	104	125	102		110	102	52	75	57	---	95
5	112	105	126	102		106	101	53	78	60	91	96
6	110	105	127	102		107	110	53	80	62	90	95
7	110	104	127	103		111	112	55	78	63	91	96
8	110	103	127	109		115	107	57	72	64	91	96
9	110	105	126	107		110	103	59	68	66	92	97
10	111	106	126	106		109	101	67	---	66	92	98
11	111	107	133	103		109	98	71	---	67	92	102
12	110	107	147	51		114	97	73	---	67	92	103
13	111	108	137	38		110	89	75	---	69	93	104
14	111	108	137	---		108	80	75	---	70	93	104
15	111	108	137	---		110	78	72	---	71	93	102
16	111	108	141	---		115	76	67	---	71	92	103
17	111	108	140	---		109	71	64	---	73	92	101
18	111	---	126	---		109	68	62	---	75	93	102
19	90	---	127	---		111	66	58	---	77	93	103
20	91	---	128	---		108	64	55	---	78	93	103
21	108	---	123	---		106	67	53	---	76	93	103
22	108	115	124	---		112	74	55	---	78	93	102
23	107	120	122	---		114	75	61	---	81	93	102
24	108	127	117	---		109	70	68	---	81	93	102
25	96	117	113	---		109	67	72	---	84	93	102
26	96	116	108	---		108	64	75	---	85	94	102
27	104	110	109	---		108	60	76	---	86	94	102
28	105	114	110	---		108	57	77	---	86	94	102
29	107	119	107	---		107	55	75	---	87	94	102
30	108	120	107	---		104	56	72	---	87	94	102
31	108	---	95	---		104	---	70	---	88	94	---
MEAN	107	110	124	94		109	83	64	73	73	92	100

WTR YR 1980 MEAN 95 MAX 147 MIN 38

10338000 TRUCKEE RIVER NEAR TRUCKEE, CA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	18.0	11.5	8.0	3.5	1.0	.5	4.0	1.5	4.5	2.0	---	---
2	18.0	11.5	8.5	5.0	1.5	.5	4.0	1.0	5.0	2.5	---	---
3	17.0	11.0	7.0	5.0	5.5	.5	4.5	2.0	5.0	3.0	---	---
4	18.0	11.0	7.5	5.0	4.5	1.5	5.0	3.0	6.5	4.0	5.5	1.0
5	18.0	11.0	8.0	4.5	4.5	1.0	6.0	4.0	6.5	3.5	4.0	.0
6	17.0	12.0	8.0	4.0	4.5	1.0	6.0	4.0	6.0	3.5	3.0	1.5
7	15.5	12.5	8.5	4.0	4.5	1.0	5.5	3.5	3.5	2.0	6.0	1.5
8	14.0	11.0	8.0	3.5	5.5	2.0	5.0	4.0	4.5	1.0	6.0	1.0
9	15.5	8.5	7.5	3.0	5.5	2.0	4.0	.5	---	---	7.0	1.0
10	15.5	9.0	7.5	2.5	5.0	1.5	1.0	.0	---	---	7.0	1.5
11	14.0	9.5	7.0	2.5	2.5	.5	1.0	.0	---	---	4.5	1.5
12	15.5	9.0	7.0	2.0	4.0	.5	1.5	.5	---	---	5.5	.5
13	13.5	10.0	7.5	2.5	4.0	.5	---	---	---	---	7.5	2.0
14	12.5	10.5	7.0	2.5	3.5	.5	3.0	2.0	---	---	7.0	3.0
15	13.0	11.0	7.5	3.0	4.0	.5	3.5	2.0	---	---	6.5	2.5
16	15.5	10.0	7.5	4.5	3.5	.5	3.0	2.0	---	---	7.0	1.0
17	14.5	9.0	7.0	4.5	3.5	.5	3.0	2.5	---	---	8.0	2.5
18	11.5	9.0	---	---	1.5	.5	3.0	1.0	---	---	6.5	2.0
19	9.5	6.5	---	---	2.5	.5	2.5	1.0	---	---	7.5	1.5
20	8.0	3.5	---	---	3.5	.0	2.5	.5	---	---	4.5	2.0
21	8.0	2.0	---	---	.5	.0	3.0	.5	---	---	5.0	1.0
22	9.5	4.5	3.0	.5	1.5	.0	3.5	1.0	---	---	7.5	2.5
23	11.0	6.0	3.5	2.0	1.0	.0	3.5	.5	---	---	8.0	2.5
24	10.5	6.0	4.0	.0	.5	.0	4.0	1.0	---	---	7.5	2.5
25	7.5	5.0	.0	.0	.5	.0	4.0	1.5	---	---	5.0	2.0
26	9.0	3.5	.0	.0	1.0	.5	4.0	1.5	---	---	7.5	1.0
27	9.5	4.0	.5	.0	1.0	.5	2.5	1.0	---	---	8.5	2.5
28	7.5	4.5	1.0	.0	.5	.0	3.5	1.0	---	---	8.5	2.5
29	7.5	3.0	1.0	.5	.5	.5	2.5	.5	---	---	9.5	3.0
30	5.5	3.0	1.0	.5	.5	.0	3.5	.5	---	---	9.0	4.5
31	8.5	3.5	---	---	2.0	.0	4.5	1.0	---	---	7.5	2.5
MONTH	18.0	2.0	8.5	.0	5.5	.0	6.0	.0	6.5	1.0	9.5	.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.0	2.5	9.5	3.5	9.5	5.0	---	---	22.0	16.5	20.0	14.5
2	6.5	2.0	10.0	4.0	10.5	5.5	---	---	21.0	15.5	20.0	14.5
3	8.0	3.0	10.0	4.0	11.0	4.5	14.5	7.0	21.0	15.0	20.0	14.5
4	8.0	3.5	10.0	4.0	7.5	5.0	15.0	7.5	21.5	15.0	20.0	14.5
5	5.0	2.0	8.0	4.0	10.5	5.0	15.0	7.0	21.0	16.0	20.0	14.0
6	5.0	2.0	9.0	4.0	12.0	4.5	15.0	8.0	19.5	15.0	20.5	15.0
7	8.0	1.0	8.5	4.0	13.0	5.5	16.0	9.0	20.0	15.0	17.0	15.0
8	8.5	3.0	8.5	4.0	13.5	5.5	16.0	8.5	21.0	16.0	19.0	14.5
9	10.5	4.5	6.0	3.0	13.0	5.5	16.0	8.5	21.0	15.5	19.0	13.5
10	10.0	4.0	6.0	2.5	---	---	16.0	8.5	21.5	16.0	17.0	14.0
11	9.5	4.0	6.5	3.5	---	---	17.0	9.0	22.0	16.0	17.0	12.0
12	10.5	3.5	7.5	4.0	---	---	17.0	9.5	21.5	16.0	18.5	12.0
13	10.5	4.5	9.5	4.5	---	---	16.5	10.0	21.0	15.5	15.5	11.0
14	9.5	4.5	9.5	5.5	---	---	17.5	10.5	20.0	15.5	13.5	8.5
15	9.5	3.5	11.5	5.0	---	---	18.0	10.0	20.0	15.0	16.5	9.5
16	10.0	3.5	11.5	4.5	---	---	19.0	11.0	21.0	15.5	17.5	9.0
17	9.5	3.5	11.5	4.5	---	---	19.0	12.0	20.5	16.5	18.0	12.5
18	8.5	3.5	11.5	4.5	---	---	18.5	11.5	19.5	16.0	16.0	12.5
19	9.5	3.5	11.5	5.0	---	---	19.0	11.0	19.5	14.0	16.0	10.0
20	6.5	3.5	11.5	4.5	---	---	20.0	12.5	21.0	15.0	15.0	8.5
21	7.0	3.0	11.0	4.5	---	---	20.5	13.5	21.0	15.5	15.5	8.0
22	5.5	3.0	10.0	4.5	---	---	20.5	13.5	20.5	16.0	15.5	7.5
23	8.0	4.0	5.5	4.0	---	---	21.0	14.0	19.5	15.5	15.5	8.0
24	9.5	3.5	8.5	3.0	---	---	21.0	14.0	20.0	15.0	16.5	8.5
25	10.0	3.5	7.5	3.5	---	---	21.0	13.5	20.5	15.0	16.5	9.5
26	9.5	3.5	9.5	3.5	---	---	21.0	14.5	20.5	15.0	14.5	10.0
27	9.5	4.0	8.0	5.0	---	---	22.0	15.5	20.0	15.0	15.5	8.5
28	8.0	4.5	9.0	5.0	---	---	20.0	17.0	19.0	14.0	16.0	9.0
29	9.0	4.5	11.5	5.0	---	---	21.5	15.5	19.0	13.5	16.0	8.5
30	9.0	3.0	9.0	5.5	---	---	22.5	16.5	18.0	14.0	17.0	8.5
31	---	---	10.0	5.5	---	---	21.5	17.0	19.0	13.5	---	---
MONTH	10.5	1.0	11.5	2.5	13.5	4.5	22.5	7.0	22.0	13.5	20.5	7.5
YEAR	22.5	.0										

10338500 DONNER CREEK AT DONNER LAKE, NEAR TRUCKEE, CA

LOCATION.--Lat 39°19'25", long 120°14'00", in SW¼NW¼ sec.17, T.17 N., R.16 E., Nevada County, Hydrologic Unit 16050102, in Donner Memorial State Park on left bank 10 ft (3 m) downstream from bridge on Donner Memorial State Park road, 0.2 mi (0.3 km) downstream from outlet of Donner Lake, 0.7 mi (1.1 km) upstream from Cold Creek, and 2.5 mi (4.0 km) west of Truckee.

DRAINAGE AREA.--14.3 mi^2 (37.0 km^2).

PERIOD OF RECORD.--November 1909 to August 1910, January 1929 to October 1935, January 1936 to March 1938, July to October 1938, January 1939 to February 1943, June 1943 to December 1953, May 1955 to December 1957, October 1958 to current year. Monthly discharge only prior to October 1958, published in WSP 1314 and 1734.

REVISED RECORDS.--WDR NV-79-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,930 ft (1,807 m), from topographic map. Nov. 1, 1909, to Aug. 31, 1910, nonrecording gage at different datum. January 1929 to December 1957, water-stage recorder at same site at unknown datum.

REMARKS.--Records good. Flow regulated by dam at outlet of Donner Lake, usable capacity, 9,500 acre-ft (11.7 hm^3).

AVERAGE DISCHARGE (unadjusted).--43 years (1929-35, 1936-37, 1939-42, 1943-52, 1955-57, 1958-80), 33.5 ft^3/s (0.949 m^3/s), 24,270 acre-ft/yr (29.9 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 700 ft^3/s (19.8 m^3/s) (estimated) Nov. 21, 1950; maximum gage height observed 4.55 ft (1.387 m) Dec. 25, 1964; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 451 ft^3/s (12.8 m^3/s) Jan. 14, gage height, 4.35 ft (1.326 m); minimum daily, 0.14 ft^3/s (0.004 m^3/s) Oct. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.33	53	23	31	53	72	31	153	17	16	3.5	.63
2	.35	123	21	31	49	69	35	89	47	16	3.3	.59
3	.27	128	19	30	46	67	35	94	67	37	3.1	.59
4	.30	122	17	28	44	66	34	100	66	72	2.8	.49
5	1.2	117	16	26	42	67	38	107	66	72	2.6	.42
6	.54	140	15	25	41	66	40	103	74	71	2.4	.45
7	.35	189	14	23	40	61	39	96	85	67	2.1	.51
8	.25	217	13	23	39	57	37	100	87	57	2.0	.49
9	.27	214	12	25	38	53	36	103	95	44	1.8	.61
10	.34	178	11	32	36	51	36	103	108	34	1,8	.62
11	.28	150	10	35	35	50	37	103	108	25	1.7	.50
12	.35	127	9.7	102	33	48	38	101	108	24	1.6	.52
13	.40	109	9.2	295	31	46	40	92	108	23	1.7	.44
14	.55	102	8.8	443	33	43	48	62	107	22	1.6	.42
15	.28	94	8.3	409	39	43	56	45	107	15	1.5	.41
16	.23	80	7.9	360	44	41	63	46	106	16	1.5	.48
17	.17	71	7.5	319	62	39	74	47	87	14	1.5	.48
18	.14	63	7.2	276	115	40	86	47	68	14	1.4	.52
19	.33	55	6.7	232	141	39	97	22	68	11	1.4	.49
20	.18	47	6.7	198	140	39	113	1.7	68	10	1.3	.50
21	.38	41	8.3	171	139	40	126	40	68	8.4	1.3	.47
22	.28	37	8.6	149	130	38	125	107	68	6.2	1.3	.55
23	.29	35	9.7	131	118	36	120	132	58	4.9	1.2	25
24	.21	33	18	115	107	35	117	130	41	4.4	1.2	79
25	.36	35	23	103	97	34	121	116	40	4.8	1.1	120
26	.46	35	22	93	89	33	126	101	32	4.9	1.0	157
27	.43	33	20	84	83	31	130	81	20	4.4	.95	164
28	.24	30	18	76	82	30	131	61	18	4.3	.92	155
29	.56	27	17	69	77	29	142	45	17	4.3	.80	59
30	.33	25	18	63	---	29	168	25	17	4.0	.72	1.6
31	.29	---	25	57	---	30	---	19	---	3.6	.63	---
TOTAL	10.94	2710	430.6	4054	2023	1422	2319	2471.7	2026	714.2	51.72	771.78
MEAN	.35	90.3	13.9	131	69.8	45.9	77.3	79.7	67.5	23.0	1.67	25.7
MAX	1.2	217	25	443	141	72	168	153	108	72	3.5	164
MIN	.14	25	6.7	23	31	29	31	1.7	17	3.6	.63	.41
AC-FT	22	5380	854	8040	4010	2820	4600	4900	4020	1420	103	1530

CAL YR 1979 TOTAL 9630.16 MEAN 26.4 MAX 217 MIN .14 AC-FT 19100
WTR YR 1980 TOTAL 19004.94 MEAN 51.9 MAX 443 MIN .14 AC-FT 37700

BEST DOCUMENT AVAILABLE

10339250 MARTIS CREEK AT HIGHWAY 267 NEAR TRUCKEE, CA

LOCATION.--Lat 39°18'08", long 120°07'13", in SW¼SW¼ sec.20, T.17 N., R.17 E., Placer County, Hydrologic Unit 16050102, 4.0 mi (6.4 km) southwest of Truckee. Water-quality samples are collected about 150 ft (50 m) downstream from State Highway 267. Thermograph records are obtained about 300 ft (90 m) upstream from highway, off north bank immediately downstream from confluence of mainstem and Middle Martis Creek.

DRAINAGE AREA.--25.8 mi^2 (66.8 km^2).

PERIOD OF RECORD.--July 1973 to current year.
CHEMICAL ANALYSES, SPECIFIC CONDUCTANCES, AND SEDIMENT DATA: August 1973 to current year, two-three times per year.
WATER TEMPERATURES: July 1973 to November 1974, hourly; December 1974 to July 1975, monthly; August 1975 to current year, hourly.

INSTRUMENTATION.--Temperature recorder since July 1973.

REMARKS.--No daily temperatures for period May 1-25 due to ponded water at recorder probe.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 153 micromhos Sept. 6, 1977; minimum, 50 micromhos Apr. 23, 1980.
WATER TEMPERATURES: Maximum, 27.5°C July 30, 1977; minimum, freezing point Jan. 5, 10-16, 1979.
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 68 mg/L Sept. 7, 1978; minimum, 1 mg/L Aug. 16, 1973.

EXTREMES FOR CURRENT YEAR (MEASUREMENTS AT LEAST ONCE-DAILY).--
WATER TEMPERATURES: Maximum, 23.5°C July 21, 31; minimum, freezing point on many days in Jan., Feb., and Mar.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	ALKALINITY FIELD (MG/L AS CACO3)
APR 23...	0930	79	50	7.0	4.5	3.9	10.4	24
JUN 20...	0930	13	95	7.2	7.5	3.0	9.5	46
SEP 03...	0945	4.9	119	7.6	8.5	2.0	10.0	64

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)
APR 23...	.14	.01	.00	.56	.71	.05	.02	0	2
JUN 20...	.12	.01	.01	.42	.56	.01	.01	4	1
SEP 03...	.01	.02	.00	.30	.33	.03	.02	6	2

DATE	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)
APR 23...	360	110	11	0	30	20	130	30
JUN 20...	240	80	6	5	70	40	70	<3
SEP 03...	340	130	10	2	50	20	60	10

DATE	TIME	STREAM FLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
APR 23...	0930	79	11	2.3
JUN 20...	0930	13	8	.28
SEP 03...	0945	4.9	12	.16

10339250 MARTIS CREEK AT HIGHWAY 267 NEAR TRUCKEE, CA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	18.0	5.5	6.5	.5	4.5	.5	2.5	.5	3.0	.0	2.5	.5
2	17.5	5.5	7.0	.5	7.0	1.5	2.0	.5	4.0	.0	5.0	1.5
3	16.5	5.0	5.5	3.5	7.0	1.0	1.0	.5	4.0	.5	6.5	.5
4	17.5	5.5	8.5	2.0	5.5	.5	2.5	.5	7.0	1.5	4.5	.0
5	18.0	5.5	6.5	.5	5.0	.5	4.5	1.5	7.5	1.0	2.0	.0
6	17.0	6.5	6.5	.5	4.5	.5	4.5	1.5	6.0	.5	3.0	.5
7	14.0	8.0	7.5	.5	4.0	.5	4.5	1.0	3.0	.0	7.0	.5
8	12.5	7.0	7.5	.5	5.5	.5	5.0	2.0	4.0	.0	6.5	.0
9	15.5	5.0	7.5	.5	6.0	.5	4.0	.5	3.5	.0	7.0	.0
10	15.5	4.0	6.0	.5	4.5	.5	.5	.5	3.5	.0	7.0	.0
11	13.5	4.5	5.0	.5	1.0	.5	.5	.5	4.0	.0	3.0	.0
12	13.5	4.0	5.0	.5	1.0	.5	1.0	.5	5.0	.0	4.0	.0
13	12.5	5.5	6.0	.5	1.0	.5	1.0	.5	4.5	.0	7.0	.0
14	12.0	6.0	5.5	.5	1.0	.5	2.5	1.0	3.5	.0	8.0	.5
15	11.5	8.0	6.5	.5	1.0	.5	3.5	1.0	3.5	.5	6.0	.5
16	15.0	6.5	6.5	1.5	1.0	.5	4.0	.5	1.0	.0	7.5	.0
17	14.0	4.5	6.5	3.0	1.0	.5	2.0	1.5	3.0	1.0	7.5	.0
18	10.0	4.5	5.5	.5	1.5	.5	1.5	.5	2.0	.5	5.0	.5
19	11.0	6.0	1.0	.5	3.0	1.0	1.0	.5	.5	.0	8.5	.0
20	8.0	2.5	1.0	.5	3.5	1.5	1.0	.0	2.0	.0	4.5	.5
21	8.5	1.0	.5	.5	1.0	.5	2.0	.0	.5	.0	5.0	.5
22	10.5	2.0	1.0	.5	1.5	.5	2.0	.0	2.0	.0	8.5	.5
23	12.0	4.0	4.5	1.0	1.0	.5	2.0	.0	3.0	.0	8.5	.5
24	11.0	2.5	7.0	2.0	1.0	.5	2.5	.0	3.5	.5	8.0	.5
25	7.5	4.0	5.0	1.0	1.0	.5	3.0	.0	4.5	.0	3.5	.5
26	9.5	2.5	5.5	.5	1.0	.5	3.0	.0	5.5	.5	8.0	.5
27	9.5	1.0	2.5	.5	1.0	.5	1.5	.0	6.0	1.0	9.5	.5
28	7.5	1.5	4.0	.5	1.0	.5	2.0	.0	6.0	.5	10.0	.5
29	7.5	.5	5.5	.5	1.0	.5	1.5	.0	6.5	.0	11.5	.5
30	5.0	.5	5.5	.5	1.0	.5	1.5	.0	---	---	10.0	1.0
31	8.5	.5	---	---	1.0	.5	2.0	.0	---	---	8.5	.5
MONTH	18.0	.5	8.5	.5	7.0	.5	5.0	.0	7.5	.0	11.5	.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.5	.5	---	---	13.5	5.5	17.5	10.5	23.0	12.0	18.5	7.0
2	8.0	.5	---	---	11.0	6.0	12.5	9.5	21.5	9.0	18.5	7.0
3	9.5	1.0	---	---	13.0	4.5	18.5	8.0	21.5	8.5	18.5	6.5
4	9.5	1.0	---	---	11.5	6.0	19.5	7.5	22.0	8.5	18.0	6.5
5	7.0	1.0	---	---	13.5	5.5	19.0	6.5	21.0	8.5	17.5	7.0
6	9.0	.5	---	---	14.5	4.0	19.0	7.0	20.0	8.0	18.0	8.0
7	11.0	.5	---	---	17.0	5.0	20.5	9.5	21.0	8.5	15.0	8.5
8	11.5	1.0	---	---	17.5	6.0	20.0	8.5	21.0	8.5	17.5	9.0
9	8.0	1.5	---	---	18.0	6.0	19.5	7.5	21.0	7.5	17.0	7.5
10	14.0	1.0	---	---	17.0	6.0	20.0	7.0	21.5	8.0	13.0	8.5
11	11.5	1.0	---	---	17.0	6.0	20.5	7.5	21.5	8.5	14.5	4.5
12	15.0	1.0	---	---	16.5	6.5	20.0	8.0	21.0	8.5	15.5	7.5
13	14.0	2.0	---	---	14.0	5.0	21.0	9.0	20.0	7.5	14.5	7.5
14	12.5	2.5	---	---	17.5	7.0	21.0	9.0	18.5	7.0	12.0	5.5
15	13.5	1.0	---	---	18.5	6.0	21.5	8.0	19.0	7.5	15.5	6.5
16	13.5	1.5	---	---	19.0	7.0	22.0	9.0	20.5	8.5	16.0	5.5
17	13.0	2.0	---	---	20.0	7.5	22.5	9.5	19.5	9.5	18.0	8.5
18	12.0	2.0	---	---	19.5	7.5	21.0	9.0	19.5	9.5	16.0	10.0
19	13.5	2.0	---	---	18.0	7.0	21.5	7.5	20.0	7.5	16.0	6.5
20	8.5	3.5	---	---	19.0	6.5	23.0	9.5	20.5	8.0	14.0	5.0
21	9.0	2.0	---	---	18.5	6.5	23.5	11.0	20.0	8.0	14.5	4.5
22	8.0	2.5	---	---	17.5	6.5	23.0	10.5	18.5	8.5	14.5	3.5
23	10.5	3.5	---	---	18.0	7.0	23.0	10.0	17.5	9.5	15.0	4.0
24	13.5	2.5	---	---	18.5	6.0	23.0	10.0	17.5	8.0	15.0	4.0
25	14.0	3.0	---	---	19.0	7.5	23.0	9.5	18.0	8.0	15.0	5.5
26	13.5	3.0	11.0	3.0	19.0	7.5	23.0	10.0	18.5	7.5	13.0	6.0
27	13.5	3.5	9.0	5.0	19.0	6.0	23.0	11.0	18.5	7.0	14.5	4.5
28	11.5	4.5	9.5	5.0	20.5	8.0	18.0	13.0	17.0	6.0	15.0	5.0
29	12.5	4.5	15.0	4.5	19.5	11.0	22.5	10.0	17.0	5.5	15.0	4.0
30	13.0	2.5	10.0	6.0	18.0	11.0	22.5	11.0	16.5	7.0	15.5	4.5
31	---	---	12.0	6.5	---	---	23.5	12.5	18.0	6.0	---	---
MONTH	15.0	.5	15.0	3.0	20.5	4.0	23.5	6.5	23.0	5.5	18.5	3.5
YEAR	23.5	.0										

10339380 MARTIS CREEK LAKE NEAR TRUCKEE, CA

LOCATION.--Lat 39°19'38", long 120°06'48", in NE¼NW¼ sec.17, T.17 N., R.17 E., Nevada County, Hydrologic 16050102, Tahoe National Forest, in control house at Martis Creek Dam, 2.0 mi (3.2 km) upstream from mouth, and 3.5 mi (5.6 km) east of Truckee.

DRAINAGE AREA.--39.6 mi^2 (102.6 km^2).

RESERVOIR-CONTENTS RECORDS

PERIOD OF RECORD.--March to May 1972 (occasional readings only), June 1972 to current year.

REVISED RECORDS.--WDR NV-79-1: drainage area.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Corps of Engineer).

REMARKS.--Lake is formed by rolled-earthfill dam. Storage began Oct. 7, 1971. Total capacity, 20,400 acre-ft (25.2 hm^3) between elevations 5,745 ft (1,751.1 m), streambed elevation at dam, and 5,838 ft (1,779.4 m), elevation of spillway crest. Figures given herein represent total contents, which include 775 acre-ft (960,000 m^3) of inactive storage below elevation, 5,780 ft (1,761.7 m), intake crest. Reservoir is used for flood control, enhancement of fishery, and recreation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 7,700 acre-ft (9.49 hm^3) May 11, 12, 1980, elevation, 5,815.16 ft (1,772.461 m); minimum (since storage began), 768 acre-ft (947,000 m^3) Aug. 24, 1977, elevation, 5,779.88 ft (1,761.707 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 7,700 acre-ft (9.49 hm^3) May 11, 12, elevation, 5,815.16 ft (1,772.461 m); minimum, 777 acre-ft (958,000 m^3 Oct. 1-4 elevation, 5,780.03 ft (1,761.753 m).

Capacity table (elevation, in feet, and contents, in acre-feet)

5779	716	5800	3255
5780	775	5810	5884
5785	1139	5820	9718
5790	1646		

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	777	782	783	806	796	829	1840	6240	2510	798	787	786
2	777	782	782	796	798	830	1910	6410	2280	798	787	786
3	777	783	782	791	799	830	1980	6580	2020	801	786	786
4	777	783	782	788	801	827	2050	6760	1760	804	786	786
5	778	783	782	787	801	825	2150	6930	1500	802	786	786
6	778	783	782	786	800	820	2310	7090	1480	800	786	786
7	778	782	783	786	798	819	2410	7230	1460	798	786	788
8	780	782	782	787	797	818	2490	7380	1440	798	786	789
9	779	782	783	794	796	818	2580	7500	1420	797	786	788
10	779	782	781	787	796	819	2680	7610	1410	796	786	788
11	780	782	780	808	795	815	2770	7700	1300	796	786	820
12	779	782	780	1060	794	816	2880	7700	1190	796	786	822
13	779	782	781	1850	794	817	3010	7610	1080	796	786	790
14	779	782	781	2170	802	821	3180	7510	968	796	786	789
15	779	782	781	1460	829	817	3400	7400	858	796	786	788
16	779	782	781	911	831	816	3540	7290	809	796	786	788
17	779	783	781	858	921	855	3900	7190	803	796	786	786
18	780	783	782	834	928	933	4100	7090	801	796	786	786
19	784	781	782	827	910	1000	4260	7000	799	796	786	786
20	785	781	783	822	871	1070	4410	6920	798	795	786	786
21	784	781	784	818	845	1140	4580	6840	798	794	786	786
22	783	783	783	815	845	1210	4740	6610	798	789	788	786
23	782	783	792	811	839	1270	4900	6200	798	788	788	786
24	781	784	795	810	832	1330	5050	5800	799	788	789	786
25	785	786	787	807	829	1380	5200	5390	800	788	788	786
26	785	785	785	804	831	1430	5360	4980	799	788	788	786
27	784	784	784	803	846	1480	5540	4550	798	788	788	786
28	782	783	783	800	840	1540	5720	4140	798	788	786	786
29	782	783	783	797	834	1620	5900	3720	798	788	786	786
30	782	783	797	797	---	1690	6080	3310	798	788	786	786
31	782	---	820	798	---	1770	---	2910	---	788	786	---
MAX	785	786	820	2170	928	1770	6080	7700	2510	804	789	822
MIN	777	781	780	786	794	815	1840	2910	798	788	786	786
†	5780.11	5780.12	5780.72	5780.36	5780.93	5790.98	5810.59	5798.25	5780.37	5780.20	5780.18	5780.17
‡	+4	+1	+37	-22	+36	+936	+4310	-3170	-2112	-10	-2	0

CAL YR 1979 ‡ -1540
WTR YR 1980 ‡ +8

† Elevation, in feet NGVD, at end of month.
‡ Change in contents, in acre-feet.

10339380 MARTIS CREEK LAKE NEAR TRUCKEE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1972 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLING DEPTH (FT)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	ALKALINITY FIELD (MG/L AS CACO3)
APR								
23...	1035	1.0	86	7.0	9.0	2.4	9.2	34
JUN								
20...	1025	1.0	91	7.3	16.5	4.0	8.6	48
SEP								
03...	1045	3.0	119	8.7	18.5	4.0	9.2	65

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)
APR									
23...	.89	.00	.00	.40	1.3	.03	.01	0	1
JUN									
20...	.07	.01	.03	1.2	1.3	.03	.01	5	1
SEP									
03...	.00	.02	.02	.65	.69	.03	.01	10	3

DATE	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)
APR								
23...	220	30	27	0	30	10	120	20
JUN								
20...	--	--	6	5	90	60	80	40
SEP								
03...	460	190	28	4	50	20	90	10

DATE	TIME	SAMPLING DEPTH (FT)	SEDIMENT, SUSPENDED (MG/L)
APR			
23...	1035	1.0	8
JUN			
20...	1025	1.0	11

10339400 MARTIS CREEK NEAR TRUCKEE, CA

LOCATION.--Lat 39°19'44", long 120°07'00", in NE¼NW¼ sec.17, T.17 N., R.17 E., Nevada County, Hydrologic Unit 16050102, Tahoe National Forest, on left bank 0.2 mi (0.3 km) downstream from Martis Creek Lake Dam, 1.8 mi (2.9 km) upstream from mouth, and 3.5 mi (5.6 km) east of Truckee.

DRAINAGE AREA.--39.9 mi^2 (103.3 km^2), revised.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1958 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,730 ft (1,747 m), from topographic map. Prior to July 10, 1972, at site 1.0 mi (1.6 km) downstream at different datum.

REMARKS.--Records good. Flow subject to regulation by Martis Creek Lake Dam since Oct. 7, 1971.

AVERAGE DISCHARGE (unadjusted).--22 years, 23.4 ft^3/s (0.663 m^3/s), 16,950 acre-ft/yr (20.9 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,880 ft^3/s (53.2 m^3/s) Feb. 1, 1963, gage height, 6.16 ft (1.878 m), site and datum then in use; minimum, 1.1 ft^3/s (0.031 m^3/s) July 19, 20, 1961. Maximum discharge since construction of Martis Creek Dam in 1971, 648 ft^3/s (18.4 m^3/s) Apr. 2, 1974, gage height, 6.01 ft (1.832 m); minimum daily, 0.20 ft^3/s (0.006 m^3/s) Nov. 9-14, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 633 ft^3/s (17.9 m^3/s) Jan. 15, gage height, 5.61 ft (1.710 m); minimum daily, 1.8 ft^3/s (0.051 m^3/s) Mar. 18-24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	5.6	6.5	32	18	56	2.5	19	272	20	13	8.3
2	4.4	5.6	6.8	19	18	53	2.6	19	175	25	12	8.3
3	4.4	6.4	6.3	13	19	55	2.7	19	77	30	10	8.2
4	4.4	6.4	6.3	11	20	52	2.9	20	82	25	8.7	8.1
5	4.4	5.9	6.3	10	21	49	3.2	20	81	22	8.6	8.4
6	4.4	5.8	6.2	9.7	22	47	3.2	21	80	20	8.4	8.5
7	4.5	5.8	6.3	9.4	20	44	3.4	21	79	20	8.4	8.8
8	5.0	5.8	6.6	9.4	18	41	3.6	22	78	19	8.5	11
9	5.1	5.8	6.5	11	17	39	3.8	22	78	19	8.2	10
10	4.9	5.8	6.5	12	18	40	4.0	23	77	19	8.2	9.6
11	4.8	5.8	5.6	13	16	42	4.2	23	76	19	8.0	17
12	4.8	5.8	5.3	290	16	36	4.6	54	75	19	7.8	24
13	4.8	6.0	6.0	230	16	37	5.0	117	74	19	7.7	13
14	4.9	6.1	6.3	183	18	40	5.6	117	73	19	7.6	9.9
15	5.1	6.1	6.2	534	35	42	6.2	117	71	19	7.9	9.5
16	5.3	6.4	6.3	436	46	37	7.0	116	71	19	8.2	8.9
17	5.3	6.5	6.3	130	136	24	8.0	116	70	19	8.4	8.5
18	5.4	6.8	6.2	77	271	1.8	9.1	115	69	19	8.4	8.2
19	6.3	6.0	6.6	51	263	1.8	10	115	67	19	8.1	8.0
20	8.3	5.7	6.8	43	158	1.8	11	115	65	19	8.3	8.2
21	7.7	5.5	8.1	39	92	1.8	12	115	43	18	8.2	8.2
22	6.4	6.1	7.4	35	77	1.8	13	210	28	17	8.3	8.3
23	5.6	7.1	7.6	31	70	1.8	14	315	25	17	9.6	8.3
24	5.2	7.3	15	29	60	1.8	15	312	24	16	9.6	8.0
25	8.3	7.9	12	27	54	1.9	15	309	23	16	9.4	8.1
26	8.3	8.5	8.7	24	53	1.9	16	305	22	15	8.0	8.1
27	6.7	7.3	8.0	23	62	2.0	16	299	21	15	8.6	8.1
28	5.6	6.9	7.5	22	76	2.0	17	256	21	16	8.5	7.8
29	5.6	6.8	7.4	20	62	2.2	17	292	20	16	8.2	7.7
30	5.6	6.7	11	18	---	2.3	18	285	20	15	8.2	7.6
31	5.6	---	28	18	---	2.4	---	280	---	14	8.3	---
TOTAL	171.5	190.2	246.6	2409.5	1772	761.3	255.6	4229	2037	584	269.3	284.6
MEAN	5.53	6.34	7.95	77.7	61.1	24.6	8.52	136	67.9	18.8	8.69	9.49
MAX	8.3	8.5	28	534	271	56	18	315	272	30	13	24
MIN	4.4	5.5	5.3	9.4	16	1.8	2.5	19	20	14	7.6	7.6
AC-FT	340	377	489	4780	3510	1510	507	8390	4040	1160	534	565

CAL YR 1979 TOTAL 6239.3 MEAN 17.1 MAX 132 MIN 4.0 AC-FT 12380
WTR YR 1980 TOTAL 13210.6 MEAN 36.1 MAX 534 MIN 1.8 AC-FT 26200

10339400 MARTIS CREEK NEAR TRUCKEE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1960 to current year.
CHEMICAL ANALYSES, SPECIFIC CONDUCTANCES, AND SEDIMENT DATA: August 1973 to current year, two-three times per year.
WATER TEMPERATURE: March 1960 to June 1973, monthly; July 1973 to current year, hourly.

INSTRUMENTATION.--Temperature recorder since July 1973.

REMARKS.--Temperature recorder malfunctioned from Dec. 23 - Jan. 2, Mar.5 - Apr. 2.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 388 micromhos Apr. 23, 1980; minimum, 68 micromhos May 28, 1975.
WATER TEMPERATURES: Maximum, 29.0°C July 31, 1972; minimum, freezing point Jan. 3, 1963, Dec. 20, 1965.
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 16 mg/L June 20, 1980; minimum, 0 mg/L Aug. 16, 1973.

EXTREMES FOR CURRENT YEAR (MEASUREMENTS AT LEAST ONCE-DAILY).--
WATER TEMPERATURES: Maximum, 21.5°C Aug. 1; minimum, 0.5°C Jan. 13, 14 and Feb. 20.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	ALKALINITY FIELD (MG/L AS CACO3)
APR								
23...	1130	14	388	7.3	9.5	7.9	9.8	43
JUN								
20...	1115	65	93	7.5	15.5	4.0	8.6	42
SEP								
03...	1250	8.4	121	8.4	18.0	3.0	9.6	65

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)
APR									
23...	.01	.00	.00	.82	.83	.04	.01	0	0
JUN									
20...	.34	.01	.00	.53	.88	.03	.01	4	1
SEP									
03...	.00	.02	.00	1.2	1.2	.04	.01	5	2

DATE	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)
APR								
23...	440	100	32	0	30	20	150	8
JUN								
20...	--	--	6	4	80	60	50	30
SEP								
03...	390	210	22	5	60	40	50	30

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
APR				
23...	1130	14	8	.30
JUN				
20...	1115	65	16	2.8
SEP				
03...	1250	8.4	3	.07

BEST DOCUMENT AVAILABLE

10339400 MARTIS CREEK NEAR TRUCKEE, CA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	18.0	12.0	8.5	5.5	6.0	3.0	---	---	---	---	3.5	3.0
2	17.5	12.0	8.0	5.5	6.0	3.5	---	---	---	---	3.5	3.0
3	17.0	12.0	7.0	6.0	6.0	3.5	3.5	2.0	---	---	3.5	3.0
4	17.0	12.0	8.0	5.5	6.0	3.0	3.5	2.5	---	---	4.0	3.0
5	17.5	12.0	7.5	5.0	5.5	3.0	4.5	3.0	4.5	3.0	---	---
6	17.0	12.5	8.0	5.0	5.5	3.0	4.0	3.0	4.5	3.0	---	---
7	15.5	13.0	8.0	5.0	5.5	3.0	4.5	3.0	4.5	3.5	---	---
8	15.5	12.5	8.0	5.0	5.5	3.0	4.5	3.0	5.0	3.5	---	---
9	16.5	12.0	7.5	4.5	6.0	3.0	4.0	2.0	5.5	3.5	---	---
10	17.0	11.5	7.5	4.0	5.0	2.5	4.0	2.0	5.0	4.0	---	---
11	15.5	11.5	7.0	3.5	4.5	2.0	3.5	2.5	5.5	4.0	---	---
12	15.5	11.5	7.0	3.5	5.0	2.0	3.0	1.0	6.0	4.0	---	---
13	14.5	11.5	7.0	3.5	5.5	2.5	.5	.5	6.0	4.0	---	---
14	14.0	11.5	7.0	3.5	5.5	2.5	1.0	.5	5.5	4.0	---	---
15	13.5	12.0	7.0	3.5	5.5	2.5	1.0	1.0	5.0	4.5	---	---
16	15.0	11.5	6.5	4.5	5.5	2.5	2.0	1.0	4.5	4.0	---	---
17	15.0	11.0	6.0	5.0	5.5	2.5	2.0	1.5	4.0	2.5	---	---
18	12.0	10.5	6.5	3.5	5.5	2.5	2.0	2.0	3.0	2.0	---	---
19	12.0	10.0	5.5	3.0	4.5	3.5	2.0	2.0	2.0	1.0	---	---
20	11.5	9.0	5.5	2.5	4.5	3.0	2.5	1.5	1.0	.5	---	---
21	11.5	8.5	5.5	2.0	3.5	2.5	2.5	2.0	1.5	1.0	---	---
22	11.5	8.5	4.5	3.0	4.5	2.5	2.5	2.0	1.5	1.0	---	---
23	12.0	9.0	5.0	3.5	---	---	3.0	2.0	1.5	1.0	---	---
24	11.5	8.5	6.0	4.0	---	---	3.0	2.0	2.0	1.0	---	---
25	9.5	8.0	5.0	4.0	---	---	3.5	2.5	2.0	1.5	---	---
26	10.5	8.0	5.0	3.0	---	---	3.5	2.5	2.5	2.0	---	---
27	11.0	7.5	5.0	2.5	---	---	3.0	2.5	3.0	2.0	---	---
28	9.5	7.0	5.0	3.0	---	---	3.5	2.5	3.0	2.5	---	---
29	9.5	6.5	5.5	3.0	---	---	3.5	2.5	3.5	2.5	---	---
30	8.0	6.0	6.0	3.0	---	---	4.0	2.5	---	---	---	---
31	9.5	6.0	---	---	---	---	---	---	---	---	---	---
MONTH	18.0	6.0	8.5	2.0	6.0	2.0	4.5	.5	6.0	.5	4.0	3.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	11.5	8.5	13.0	11.5	16.5	15.0	21.5	18.0	18.5	14.5
2	---	---	11.5	9.0	12.5	12.0	16.5	15.5	21.0	17.5	19.0	14.5
3	12.0	6.0	11.5	9.0	12.0	11.5	18.0	15.5	21.0	17.5	19.0	14.5
4	11.0	6.5	11.5	9.0	11.5	11.0	17.5	15.0	20.5	17.5	19.0	14.5
5	10.0	5.5	11.0	9.0	12.0	11.0	17.5	14.5	21.0	17.0	19.0	14.5
6	12.0	5.0	11.5	9.0	12.0	11.0	17.5	14.5	20.5	16.5	19.0	15.0
7	12.5	5.5	11.0	9.0	13.0	11.0	17.5	15.0	21.0	16.5	18.5	15.0
8	12.5	6.0	11.5	9.5	14.0	11.5	18.0	15.0	20.5	16.0	18.5	15.5
9	11.0	6.5	10.5	9.0	14.5	12.0	18.0	15.0	20.5	16.0	18.5	15.0
10	13.5	6.5	11.0	9.0	15.0	13.0	18.0	15.0	20.5	16.0	16.5	15.0
11	13.0	6.5	10.0	9.5	14.5	13.0	18.5	15.0	20.5	16.0	18.0	14.5
12	14.0	6.5	10.5	8.5	14.0	13.0	18.5	15.0	20.5	16.0	17.5	15.5
13	13.5	7.0	8.5	8.0	14.0	12.5	19.0	15.5	20.5	15.5	17.0	14.5
14	12.5	7.5	8.5	8.5	14.5	12.5	18.5	15.5	20.0	15.5	15.5	13.5
15	13.0	7.0	9.0	8.0	16.0	13.0	19.0	15.5	19.5	15.5	16.0	13.0
16	13.0	7.5	9.0	8.0	17.5	14.0	19.5	15.5	20.0	16.0	16.5	12.5
17	12.5	7.5	9.0	8.0	17.5	14.5	19.5	16.0	20.0	16.0	16.5	13.0
18	12.0	8.0	9.5	8.5	18.0	15.0	19.0	15.5	19.5	16.0	16.0	13.5
19	12.0	8.0	9.5	8.5	18.0	15.0	19.5	15.5	20.0	15.5	---	---
20	10.5	8.0	9.5	8.5	17.5	14.5	19.5	16.0	20.0	15.5	---	---
21	10.5	8.0	9.5	8.5	16.0	14.0	20.0	16.5	19.5	15.5	---	---
22	10.0	8.0	12.5	8.5	15.5	13.5	20.0	16.5	19.5	15.5	---	---
23	11.0	8.5	10.5	9.0	15.5	13.5	20.5	16.5	19.5	16.5	---	---
24	11.5	8.0	11.0	10.0	16.0	13.0	20.5	16.5	19.5	16.0	---	---
25	11.5	8.0	11.0	10.0	16.0	13.5	21.0	16.5	19.5	16.0	---	---
26	11.5	8.5	11.5	10.5	15.5	13.5	21.0	17.0	21.0	15.5	---	---
27	11.5	8.5	11.0	10.5	15.5	13.0	21.0	17.0	19.5	15.5	---	---
28	10.5	8.5	11.0	10.5	16.5	13.5	19.5	18.0	19.0	15.0	---	---
29	11.0	8.5	11.5	10.5	16.5	14.5	21.0	17.5	19.0	14.5	---	---
30	11.5	8.5	11.5	10.5	17.0	14.5	20.5	17.5	19.0	15.0	---	---
31	---	---	11.5	11.0	---	---	21.0	18.0	18.5	14.5	---	---
MONTH	14.0	5.0	12.5	8.0	18.0	11.0	21.0	14.5	21.5	14.5	19.0	12.5
YEAR	21.5	.5										

10340300 PROSSER CREEK RESERVOIR NEAR TRUCKEE, CA

LOCATION (REVISED).--Lat 39°22'40", long 120°08'10", in NW¼SW¼ sec.30, T.18 N., R.17 E., Nevada County, Hydrologic Unit 16050102, in control house at Prosser Creek Dam on Prosser Creek, 1.4 mi (2.3 km) upstream from mouth, and 4.2 mi (6.8 km) northeast of Truckee.

DRAINAGE AREA.--50.3 mi^2 (130.3 km^2).

PERIOD OF RECORD.--January 1963 to current year. Prior to October 1976, published as "near Boca."

GAGE.--Water-stage recorder with surface follower and telemark. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Water and Power Resources Service.

REVISED RECORDS.--WDR NV-76-1: 1975. WDR NV-79-1: Drainage area.

REMARKS.--Reservoir is formed by rolled-earth and rockfill dam. Storage began Jan. 30, 1963. Usable capacity, 28,640 acre-ft (35.3 hm^3) between elevations, 5,660.6 ft (1,725.35 m), top of inactive storage, and 5,741.2 ft (1,749.92 m), spillway crest. Inactive storage, 1,200 acre-ft (1.48 hm^3), includes 83 acre-ft (102,000 m^3) dead storage, below elevation 5,660.6 ft (1,725.35 m). Elevation of streambed at dam axis, 5,622 ft (1,713.6 m). Figures given herein represent usable contents. Reservoir is used for flood control, enhancement of fishery, and recreation.

COOPERATION.--Records furnished by Water and Power Resources Service.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 32,269 acre-ft (39.8 hm^3) June 1, 1973, elevation 5,744.33 ft (1,750.872 m); minimum observed, 83 acre-ft (0.10 hm^3) Aug. 18, 1976, to Apr. 18, 1977, July 8 to Dec. 26, 1977, Feb. 19 to Mar. 21, 1978; minimum elevation observed, 5,637.01 ft (1,718.161 m) July 20 to Dec. 19, 1977, Feb. 24 to Mar. 17, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 25,488 acre-ft (31.4 hm^3) Oct. 1, elevation 5,735.08 ft (1,748.052 m); minimum observed, 8,979 acre-ft (11.1 hm^3) Mar. 7-10, elevation 5,701.10 ft (1,737.695 m).

MONTHEND ELEVATION AND CONTENTS AT 0800, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sep. 30	5,735.30	25,637	--
Oct. 31	5,704.20	10,001	-15,636
Nov. 30	5,703.10	9,629	-372
Dec. 31	5,702.83	9,539	-90
CAL YR 1979	--	--	+410
Jan. 31	5,702.95	9,578	+39
Feb. 29	5,701.68	9,165	-413
Mar. 31	5,701.55	9,123	-42
Apr. 30	5,725.75	19,716	+10,593
May 31	5,717.35	15,348	-4,368
June 30	5,724.53	19,034	+3,686
July 31	5,734.02	24,780	+5,746
Aug. 31	5,734.46	25,074	+294
Sep. 30	5,713.73	13,702	-11,372
WTR YR 1980	--	--	-11,935

10340500 PROSSER CREEK BELOW PROSSER CREEK DAM NEAR TRUCKEE, CA

LOCATION.--Lat 39°22'24", long 120°07'50", in NW¼NE¼ sec.31, T.18 N., R.17 E., Nevada County, Hydrologic Unit 16050102, on left bank 1.0 mi (1.6 km) upstream from mouth, 0.2 mi (0.3 km) downstream from Prosser Creek Dam, and 4.2 mi (6.7 km) northeast of Truckee.

DRAINAGE AREA.--52.9 mi^2 (137.0 km^2).

PERIOD OF RECORD.--October 1902 to June 1903 (gage heights only), October 1942 to December 1950, June 1951 to current year. Prior to October 1976, published as "Near Boca." Monthly discharge only for October 1942 to December 1950, published in WSP 1734. Records for April 1889 to November 1890, published in the 11th and 12th Annual Reports, Pt. 2, have been found to be unreliable and should not be used.

REVISED RECORDS.--WDR NV-79-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,602.31 ft (1,707.584 m) National Geodetic Vertical Datum of 1929 (levels by Water and Power Resources Service). See WSP 2127 for history of changes prior to September 1956. October 1956 lower to May 1976, water-stage recorder at site 0.8 mi (1.3 km) downstream at datum 29.69 ft (9.050 m) lower.

REMARKS.--Records good. Flow regulated by Prosser Creek dam since Jan. 31, 1963.

AVERAGE DISCHARGE (adjusted for change in contents in Prosser Creek Reservoir since 1963.--37 years (1942-50, 1952-80), 85.7 ft^3/s (2.427 m^3/s), 62,090 acre-ft/yr (76.6 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--(Water years 1943-80) Maximum discharge, 4,560 ft^3/s (129 m^3/s) Dec. 23, 1955, gage height, 10.13 ft (3.088 m), present datum from rating curve extended above 910 ft^3/s (25.8 m^3/s) on basis of slope-area measurement of peak flow; maximum gage height, 11.0 ft (3.35 m), from floodmarks (present datum), Nov. 20, 1950, minimum discharge, 0.4 ft^3/s (0.001 m^3/s) July 18, 1961, result of work on dam upstream. Maximum discharge since construction of Prosser Creek Dam in 1964, 1,610 ft^3/s (45.6 m^3/s) Dec. 25, 1964, gage height 6.28 ft (1.914 m); minimum daily discharge, 0.02 ft^3/s (0.001 m^3/s) Jan. 2, 1975, result of temporary closing of Prosser Creek Dam, for spillway maintenance.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,580 ft^3/s (44.7 m^3/s) Jan. 17, gage height, 6.68 ft (2.036 m), minimum daily, 9.9 ft^3/s (0.28 m^3/s) Dec. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	85	211	35	57	92	122	77	191	404	15	42	29
2	87	32	35	74	91	122	77	226	473	16	42	41
3	86	10	35	74	91	122	77	227	541	15	42	86
4	85	10	35	52	56	122	76	227	535	15	25	154
5	85	10	35	35	32	122	78	228	529	15	12	193
6	85	10	35	35	38	121	77	227	418	15	12	235
7	85	10	35	35	41	100	76	347	284	15	12	234
8	41	10	35	35	41	85	76	449	215	15	12	252
9	12	10	35	36	41	86	76	531	155	14	12	263
10	56	10	20	36	41	80	77	581	54	14	12	246
11	149	10	9.9	36	41	76	76	571	15	14	13	285
12	305	10	10	52	41	77	77	406	15	14	14	284
13	373	10	10	50	71	78	78	301	15	15	14	283
14	370	10	10	111	91	79	101	237	15	15	14	282
15	368	10	10	588	94	78	117	247	15	15	14	297
16	365	10	10	1250	93	78	119	361	15	15	14	306
17	373	10	10	1490	100	79	120	362	15	15	14	305
18	376	10	10	1270	257	79	120	363	15	14	14	303
19	385	10	10	698	410	79	119	309	15	14	14	301
20	389	10	10	160	386	79	120	275	15	14	13	299
21	187	10	10	118	342	79	120	275	15	47	13	297
22	194	10	10	90	266	79	122	348	15	70	13	249
23	398	25	11	109	216	79	62	466	15	70	13	215
24	412	35	26	120	216	78	15	546	15	70	13	163
25	428	35	36	55	158	78	15	575	14	70	13	130
26	454	35	35	10	119	78	15	487	14	70	13	90
27	466	35	35	54	120	78	15	464	14	70	13	64
28	459	35	35	120	121	78	87	480	15	53	13	64
29	410	35	35	120	122	78	136	478	15	42	13	64
30	345	35	36	103	---	77	137	473	15	42	13	64
31	106	---	37	92	---	77	---	469	---	42	13	---
TOTAL	8639	713	740.9	7165	3828	2723	2538	11727	3905	940	504	6078
MEAN	279	23.8	23.9	231	132	87.8	84.6	378	130	30.3	16.3	203
MAX	466	211	37	1490	410	122	137	581	541	70	42	306
MIN	12	10	9.9	10	32	76	15	191	14	14	12	29
AC-FT	17140	1410	1470	14210	7590	5400	5030	23260	7750	1860	1000	12060

CAL YR 1979 TOTAL 21446.2 MEAN 58.8 MAX 466 MIN 6.2 AC-FT 42540 MEAN 59.3 AC-FT 42950
WTR YR 1980 TOTAL 49500.9 MEAN 135 MAX 1490 MIN 9.9 AC-FT 98190 MEAN 119 AC-FT 86260

Adjusted for change in contents in Prosser Creek Reservoir.

BEST DOCUMENT AVAILABLE

10343000 INDEPENDENCE CREEK NEAR TRUCKEE, CA

LOCATION.--Lat 39°27'20", long 120°17'13", in SW¼NW¼ sec.35, T.19 N., R.15 E., Sierra County, Hydrologic Unit 16050102, Tahoe National Forest, on left bank 0.3 mi (0.5 km) downstream from Independence Lake outlet, and 10.5 mi (16.9 km) northwest of Truckee.

DRAINAGE AREA.--8.10 mi^2 (20.98 km^2), revised.

PERIOD OF RECORD.--November 1902 to September 1907, November 1909 to June 1910, August 1968 to current year.

REVISED RECORDS.--WDR NV-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,940 ft (2,115 m), from topographic map. July 1, 1904, to June 30, 1910, water-stage recorder 75 ft (25 m) downstream from Independence Lake outlet; prior to July 1, 1904, water-stage recorder 600 ft (180 m) downstream at approximately same datum.

REMARKS.--Records good except those for periods of no gage-height record, which are fair. Flow regulated by Independence Lake, usable capacity, 17,500 acre-ft (21.6 hm^3).

AVERAGE DISCHARGE (unadjusted).--17 years (water years 1903-7, 1969-80), 27.4 ft^3/s (0.776 m^3/s), 19,850 acre-ft/yr (24.5 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 286 ft^3/s (8.10 m^3/s) June 23, 1907, gage height, 3.9 ft (1.19 m) site and datum then in use; no flow Sept. 28 to Nov. 10, 1905, June 1, 1906.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 152 ft^3/s (4.30 m^3/s) May 22, gage height, 4.01 ft (1.222 m); minimum daily, 0.39 ft^3/s (0.011 m^3/s) on several days during October and November.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.58	.39	19	19	20	21	21	28	85	79	18	17
2	.58	.39	19	19	20	21	21	32	86	96	18	17
3	.58	10	18	19	20	21	21	49	76	102	18	17
4	.57	15	18	19	20	21	21	80	61	90	18	17
5	.56	22	18	19	20	21	21	103	58	81	18	17
6	.55	22	18	19	20	21	21	118	55	72	18	17
7	.54	22	18	19	20	21	21	125	53	64	18	17
8	.53	22	18	19	20	21	21	123	54	58	18	17
9	.52	22	18	19	20	21	21	124	59	53	17	17
10	.51	22	18	19	20	21	21	104	65	46	17	17
11	.50	22	18	19	20	21	21	84	71	42	18	17
12	.49	22	18	20	20	21	21	67	90	40	17	17
13	.48	22	18	28	20	21	21	59	90	37	17	17
14	.48	22	18	27	20	21	22	55	76	36	18	17
15	.47	22	18	23	20	21	21	54	72	36	17	18
16	.46	22	18	22	21	21	22	57	82	31	17	18
17	.45	22	18	22	21	21	22	65	93	29	17	18
18	.44	22	18	22	22	21	23	74	96	28	18	18
19	.43	22	18	22	22	21	23	87	98	25	17	18
20	.42	22	18	21	22	21	24	109	94	24	17	18
21	.41	22	18	21	21	21	23	133	95	23	17	18
22	.40	22	18	21	21	21	22	146	96	23	17	19
23	.39	22	18	21	21	21	23	135	86	22	17	19
24	.39	22	18	21	21	21	24	111	79	21	17	19
25	.39	22	18	21	21	21	24	89	75	20	17	19
26	.39	22	19	21	21	21	24	74	72	20	17	19
27	.39	22	19	21	21	21	25	61	66	20	17	19
28	.39	22	19	21	21	21	25	55	67	19	17	19
29	.39	22	19	21	21	21	26	53	70	19	17	20
30	.39	22	19	21	---	21	27	56	74	19	17	20
31	.39	---	19	20	---	21	---	74	---	18	17	---
TOTAL	14.46	597.78	566	646	597	651	673	2584	2294	1293	538	537
MEAN	.47	19.9	18.3	20.8	20.6	21.0	22.4	83.4	76.5	41.7	17.4	17.9
MAX	.58	22	19	28	22	21	27	146	98	102	18	20
MIN	.39	.39	18	19	20	21	21	28	53	18	17	17
AC-FT	29	1190	1120	1280	1180	1290	1330	5130	4550	2560	1070	1070

CAL YR 1979 TOTAL 5206.84 MEAN 14.3 MAX 86 MIN .39 AC-FT 10330
WTR YR 1980 TOTAL 10991.24 MEAN 30.0 MAX 146 MIN .39 AC-FT 21800

10343500 SAGEHEN CREEK NEAR TRUCKEE, CA

LOCATION.--Lat 39°25'54", long 120°14'07", in NE¼NE¼ sec.7, T.18 N., R.16 E., Nevada County, Hydrologic Unit 16050102, on left bank 2.2 mi (3.5 km) upstream from bridge on State Highway 89, and 7.5 mi (12.1 km) north of Truckee.

DRAINAGE AREA.--10.5 mi^2 (27.2 km^2).

PERIOD OF RECORD.--October 1953 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,320 ft (1,926 m), from topographic map. Prior to Dec. 2, 1953, nonrecording gage at site 100 ft (30 m) upstream at different datum.

REMARKS.--Records excellent. No storage or diversion above station.

AVERAGE DISCHARGE.--27 years, 12.1 ft^3/s (0.342 m^3/s), 8,770 acre-ft/yr (10.8 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 765 ft^3/s (21.7 m^3/s) Feb. 1, 1963, gage height, 4.64 ft (1.414 m) from floodmarks, from rating curve extended above 130 ft^3/s (3.68 m^3/s) on basis of slope-area measurement at gage height 4.28 ft (1.305 m); minimum, 0.6 ft^3/s (0.017 m^3/s) Aug. 8, 1960, Aug. 7, 1961, result of temporary regulation.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 50 ft^3/s (1.42 m^3/s) and maximum (*)

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 13	2100	*285	8.07	3.82	1.164	May 4	1700	142	4.02	3.28	1.000
Feb. 18	0030	56	1.59	2.66	.811	May 21	1900	98	2.78	3.02	.920
Apr. 20	1900	83	2.35	2.91	.887	July 2	1900	52	1.47	2.62	.799

Minimum daily 1.6 ft^3/s (0.045 m^3/s) Oct. 1-3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	2.4	2.6	9.5	6.9	10	7.0	87	46	23	4.9	2.7
2	1.6	2.4	2.7	6.1	6.8	10	6.8	94	46	34	4.6	2.6
3	1.6	2.8	2.7	4.6	6.7	9.8	6.5	103	42	27	4.4	2.6
4	1.7	2.8	2.6	4.0	7.0	9.4	6.5	109	44	22	4.5	2.6
5	1.7	2.7	2.6	3.7	7.3	9.3	6.8	102	42	20	4.2	2.5
6	1.7	2.5	2.5	3.6	7.5	8.8	6.5	104	38	18	4.0	2.5
7	1.8	2.5	2.5	3.6	7.1	8.4	6.3	99	38	17	3.9	3.0
8	2.1	2.4	2.5	3.4	6.8	8.1	6.6	95	38	16	3.8	3.3
9	1.9	2.4	2.5	3.7	6.5	8.0	8.4	86	38	15	3.7	3.1
10	1.8	2.3	2.5	3.7	6.3	8.1	10	71	38	14	3.6	3.3
11	1.8	2.3	2.4	6.8	6.1	8.1	11	61	37	13	3.5	3.0
12	1.8	2.3	2.4	69	5.9	7.7	12	55	35	13	3.3	2.8
13	1.8	2.3	2.3	173	5.9	7.4	16	53	34	12	3.3	2.6
14	2.0	2.3	2.3	117	6.2	7.4	22	55	32	12	3.3	2.7
15	2.3	2.2	2.3	50	6.8	7.2	25	59	32	11	3.3	2.7
16	2.1	2.3	2.2	35	7.5	7.0	31	62	32	10	3.4	2.6
17	2.0	2.9	2.2	30	23	7.0	41	65	32	9.7	3.4	2.5
18	2.2	2.6	2.3	24	44	6.9	51	66	31	9.2	3.3	2.6
19	6.3	2.4	2.4	19	24	6.8	61	72	31	8.7	3.3	2.6
20	4.4	2.2	2.4	18	19	6.8	67	78	30	8.3	3.1	2.6
21	3.0	2.1	2.6	15	16	6.7	57	83	29	7.9	3.0	2.6
22	2.7	2.4	2.4	13	14	6.5	45	82	28	7.5	3.0	2.6
23	2.5	2.6	2.4	12	13	6.4	53	72	27	7.2	3.2	2.5
24	2.4	3.6	2.4	11	12	6.3	63	59	26	6.8	3.0	2.5
25	8.9	3.9	2.4	10	12	6.2	67	52	26	6.4	3.0	2.4
26	4.4	4.2	2.6	10	12	6.1	71	49	24	6.0	2.9	2.4
27	3.0	3.0	2.7	9.4	12	6.0	77	46	23	5.8	2.8	2.4
28	2.7	2.8	2.7	8.9	12	6.0	79	44	22	6.0	2.7	2.4
29	2.5	2.7	2.8	8.2	11	6.5	90	44	22	5.9	2.7	2.4
30	2.5	2.7	5.0	7.7	---	7.2	88	46	22	5.4	2.7	2.3
31	2.6	---	10	7.3	---	7.1	---	50	---	5.2	2.8	---
TOTAL	81.4	79.0	86.9	700.2	331.3	233.2	1098.4	2203	985	383.0	106.6	79.4
MEAN	2.63	2.63	2.80	22.6	11.4	7.52	36.6	71.1	32.8	12.4	3.44	2.65
MAX	8.9	4.2	10	173	44	10	90	109	46	34	4.9	3.3
MIN	1.6	2.1	2.2	3.4	5.9	6.0	6.3	44	22	5.2	2.7	2.3
AC-FT	161	157	172	1390	657	463	2180	4370	1950	760	211	157

CAL YR 1979 TOTAL 2575.4 MEAN 7.06 MAX 46 MIN 1.5 AC-FT 5110
WTR YR 1980 TOTAL 6367.4 MEAN 17.4 MAX 173 MIN 1.6 AC-FT 12630

10344300 STAMPEDE RESERVOIR NEAR TRUCKEE, CA

LOCATION.--Lat 39°28'24", long 120°06'06", in SW¼NW¼NW¼ sec.28, T.19 N., R.17 E., Sierra County, Hydrologic Unit 16050102, in Tahoe National Forest, in control house on Stampede Dam on Little Truckee River, just downstream from mouth of Davies Creek and 11.0 mi (17.7 km) northeast of Truckee.

DRAINAGE AREA.--136 mi^2 (352 km^2).

PERIOD OF RECORD.--August 1969 to current year. August 1969 to September 1977 (monthend elevations and contents only). Prior to Oct. 1978, published as "near Boca."

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Water and Power Resources Service).

REMARKS.--Reservoir is formed by rolled-earth and rockfill dam. Storage began Aug. 1, 1969. Total capacity, 226,500 acre-ft (279 hm^3) at elevation 5,948.7 ft (1,813.16 m), spillway crest. Inactive storage, 5,010 acre-ft (6.18 hm^3), includes 660 acre-ft (814,000 m^3) dead storage, below elevation 5,798.3 ft (1,767.32 m). Figures given herein, including extremes, represent total contents. Reservoir is used for flood control, municipal water supply, enhancement of fishery, and recreation.

COOPERATION.--Records furnished by Water and Power Resources Service, not rounded to Geological Survey standards.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 226,500 acre-ft (279 hm^3) June 19, 21, 1974, elevation, 5,948.7 ft (1,813.16 m); minimum since reservoir first filled 30,772 acre-ft (37.9 hm^3) Jan. 31, Feb. 1, 1978, elevation, 5,853.60 ft (1,784.177 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 165,047 acre-ft (204 hm^3) May 22, elevation, 5,929.19 ft (1,807.217 m); minimum, 55,792 acre-ft (68.8 hm^3) Nov. 21, elevation, 5,876.87 ft (1,791.270 m).

Capacity table (elevation, in feet NGVD, and contents in acre-feet)

5,850.00	27,915	5,900.00	94,535
5,855.00	31,951	5,910.00	115,865
5,860.00	36,470	5,920.00	140,141
5,865.00	41,505	5,930.00	167,355
5,870.00	47,204	5,940.00	197,630
5,875.00	53,295	5,950.00	231,005
5,880.00	60,185	5,960.00	267,386
5,890.00	76,008		

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56738	55915	56655	59752	83695	93583	104070	133895	152939	143423	147883	146344
2	56690	55888	56745	59896	83965	94000	104473	135578	152045	144235	147830	146291
3	56641	55870	56834	60164	84235	94416	104697	137343	151034	145287	147777	146238
4	56600	55851	56911	60431	84505	94888	104921	139108	150023	145762	147724	146224
5	56559	55833	56987	60557	84764	95360	105299	140874	148913	146068	147657	146211
6	56527	55833	57056	60683	85023	95731	105677	142831	147803	146414	147591	146193
7	56494	55833	57125	60809	85283	96101	106055	144787	145917	146741	147551	146175
8	56462	55846	57199	60919	85543	96450	106389	146794	144031	146953	147511	146158
9	56400	55860	57273	61028	85555	96799	106723	148098	142145	147458	147449	146131
10	56339	55869	57347	61212	85568	97149	107178	149402	140385	147737	147387	146105
11	56291	55879	57382	61395	85580	97474	107632	150706	138626	148016	147325	146119
12	56243	55888	57417	64371	85618	97798	108272	152010	136825	148230	147271	146132
13	56184	55901	57487	67347	85655	98032	108912	153314	135024	148243	147218	146061
14	56124	55915	57556	70322	85786	98266	109553	154618	133645	148256	147152	145990
15	56065	55902	57617	73028	85916	98641	110081	155922	132946	148323	147086	145920
16	56031	55888	57678	75733	86392	99016	110609	157226	132772	148390	147059	145920
17	55997	55870	57738	76892	86868	99392	112443	158530	133220	148390	147032	145920
18	55963	55851	57808	78050	87343	99691	114276	159834	134020	148390	147006	145880
19	55929	55833	57878	78638	88428	99989	115910	161138	134848	148283	146953	145841
20	55961	55812	57963	79226	89513	100362	117544	162442	135805	148176	146900	145771
21	55993	55792	58047	79813	90111	100734	119179	163743	136601	148070	146860	145701
22	56024	55846	58207	80277	90708	101039	119993	165047	137397	148043	146820	145630
23	55997	55901	58367	80740	91051	101344	120952	163942	138192	148016	146776	145603
24	55967	56015	58526	81172	91394	101649	122275	162074	138884	148016	146732	145577
25	55990	56129	58650	81603	91738	101911	123597	160207	139575	148016	146688	145564
26	56010	56243	58774	81935	91973	102172	125234	159260	140212	147981	146661	145551
27	55996	56311	58898	82267	92207	102445	126871	158111	140848	147946	146615	145516
28	55982	56380	59023	82599	92649	102718	128509	156962	141489	147910	146542	145481
29	55969	56476	59166	82882	93090	103063	130280	155795	142130	147896	146449	145445
30	55963	56572	59309	83164	---	103408	132051	154628	142770	147883	146396	145445
31	55956	---	59451	83420	---	103752	---	153701	---	147883	146344	---
MAX	56738	56572	59451	83420	93090	103752	132051	165047	152939	148390	147883	146344
MIN	55929	55792	56655	59752	83695	93583	104070	133895	132772	143423	146344	145445
†	5876.99	5877.44	5879.49	5894.18	5899.27	5904.49	5916.80	5925.11	5921.01	5922.95	5922.37	5922.03
‡	-837	+616	+2879	+23969	+9670	+10662	+28299	+21650	-10931	+5113	-1539	-899

CAL YR 1979 MAX 65954 MIN 48732 ‡ -1797
WTR YR 1980 MAX 165047 MIN 55792 ‡ +88652

† Change in elevation, in feet NGVD, at end of month.
‡ Change in contents, in acre-feet.

10344400 LITTLE TRUCKEE RIVER ABOVE BOCA RESERVOIR, NEAR TRUCKEE, CA

LOCATION.--Lat 39°26'09", long 120°05'00", in SW¼SW¼ sec.3, T.18 N., R.17 E., Nevada County, Hydrologic Unit 16050102, on left bank 1 mi (2 km) upstream from Boca Reservoir, 1.5 mi (2.4 km) upstream from Dry Creek, 3.0 mi (4.8 km) downstream from Stampede Dam, and 5.5 mi (8.8 km) east of Truckee.

DRAINAGE AREA.--146 mi^2 (378 km^2).

PERIOD OF RECORD.--June 1903 to October 1910, September 1939 to current year. Monthly discharge only for some periods, published in WSP 1314 and 1734. Published as "at Pine Station" June 1903 to December 1907 and as "at Starr" January 1908 to October 1910, and as "near Boca" September 1939 to September 1976.

REVISED RECORDS.--WSP 1564: 1903-4, 1906-7, 1910, drainage area at site used 1903-7.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 5,618.67 ft (1,712.571 m) National Geodetic Vertical Datum of 1929 (Water and Power Resources Service bench mark). June 1903 to October 1910, nonrecording gages at different sites and datums.

REMARKS.--Records good. Flow regulated by Independence Lake, capacity, about 17,500 acre-ft (21.6 hm^3), one transbasin diversion to Sierra Valley, and Stampede Reservoir (station 10344300), capacity, 226,500 acre-ft (279 hm^3), since 1969.

AVERAGE DISCHARGE (adjusted for change in contents in Stampede Reservoir since 1969).--48 years (water years (1904-10, 1940-80), 188 ft^3/s (5.324 m^3/s), 136,200 acre-ft/yr (168 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,300 ft^3/s (377 m^3/s) Feb. 1, 1963, gage height, 9.00 ft (2.743 m), from rating curve extended above 1,600 ft^3/s (45.3 m^3/s) on basis of slope-area measurement of peak flow; minimum daily, 0.30 ft^3/s (0.008 m^3/s) Sept. 16-21, 1969.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,650 ft^3/s (46.7 m^3/s) May 23, gage height, 3.15 ft (0.960 m); minimum, 4.5 ft^3/s (0.13 m^3/s) Dec. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	30	4.9	6.4	7.2	44	29	51	995	32	31	30
2	30	30	4.9	6.4	7.3	43	40	50	1000	61	31	30
3	30	31	4.9	5.5	7.6	36	39	50	1010	109	31	28
4	30	30	4.9	6.2	7.9	21	39	50	1020	139	31	27
5	30	30	4.9	5.5	9.0	20	45	49	1020	138	31	27
6	30	30	5.1	5.4	9.9	18	44	49	1120	138	31	28
7	31	30	5.0	5.4	14	17	42	48	1480	104	31	28
8	31	30	4.9	5.6	89	16	43	47	1480	52	32	23
9	30	30	4.9	6.5	107	16	46	47	1490	31	31	28
10	30	30	4.9	7.3	107	17	48	47	1480	31	31	29
11	30	30	4.5	8.6	107	17	49	47	1490	43	31	32
12	30	30	5.2	49	106	15	50	46	1500	108	32	32
13	30	30	4.9	106	106	15	55	45	1320	137	31	30
14	30	38	4.9	62	109	16	64	45	925	114	31	29
15	31	45	4.9	31	114	15	65	44	649	74	29	29
16	31	45	4.8	26	114	14	66	44	378	93	30	29
17	31	45	4.7	23	136	15	70	46	190	134	31	29
18	31	45	4.9	18	172	16	73	46	112	134	31	28
19	32	45	4.9	17	150	16	109	46	73	134	31	28
20	32	45	4.9	17	135	16	206	46	34	134	31	28
21	32	40	5.4	11	127	16	328	115	34	114	30	28
22	31	9.8	5.0	12	122	15	311	1060	33	72	31	28
23	31	7.9	5.4	10	120	15	203	1620	33	64	31	29
24	30	5.6	6.0	9.9	118	14	99	1630	33	52	31	29
25	31	5.8	7.0	9.3	118	14	54	1390	32	52	31	29
26	31	5.7	7.5	8.6	119	14	53	1020	32	51	30	29
27	31	5.4	7.5	8.7	77	13	53	982	32	52	30	29
28	30	4.9	7.3	8.6	49	14	53	982	32	46	30	29
29	30	4.9	7.1	7.5	46	15	52	982	31	32	30	28
30	31	4.9	6.9	7.7	---	16	51	983	31	31	30	28
31	31	---	6.7	7.6	---	16	---	993	---	31	30	---
TOTAL	949	793.9	169.7	518.7	2510.9	565	2479	12700	19089	2537	953	858
MEAN	30.6	26.5	5.47	16.7	86.6	18.2	82.6	410	636	81.8	30.7	28.6
MAX	32	45	7.5	106	172	44	328	1630	1500	139	32	32
MIN	30	4.9	4.5	5.4	7.2	13	29	44	31	31	29	23
AC-FT	1880	1570	337	1030	4980	1120	4920	25190	37860	5030	1890	1700

CAL YR 1979 TOTAL 36753.6 MEAN 101 MAX 1410 MIN 4.5 AC-FT 72900
WTR YR 1980 TOTAL 44123.2 MEAN 121 MAX 1630 MIN 4.5 AC-FT 87520

10344490 BOCA RESERVOIR NEAR TRUCKEE, CA

LOCATION.--Lat 39°23'20", long 120°05'45", in NE¼NW¼ sec.28, T.18 N., R.17 E., Nevada County, Hydrologic Unit 16050102, in control house at Boca Dam on Little Truckee River, 1,800 ft (550 m) upstream from mouth, and 6.5 mi (10.5 km) northeast of Truckee.

DRAINAGE AREA.--172 mi^2 (445 km^2).

PERIOD OF RECORD.--December 1938 to current year. Prior to October 1976 published as "at Boca." Monthend contents only for December 1938 to September 1957, published in WSP 1734.

REVISED RECORDS.--WSP 1634: Drainage area.

GAGE.--Pressure gage with mercury column read once daily. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Water and Power Resources Service).

REMARKS.--Reservoir is formed by earthfill, rock-faced dam. Storage began Dec. 8, 1938. Usable capacity, 40,870 acre-ft (50.4 hm^3) between elevations 5,521 ft (1,682.8 m), outlet sill, and 5,605 ft (1,708.4 m) top of spillway gates. Elevation of spillway (gate open) is 5,589.01 ft (1,703.530 m). Dead storage, 241 acre-ft (297,000 m^3), below outlet sill. Figures given herein represent usable contents at 0800 hours. Water is used for irrigation in the State of Nevada and for power development.

COOPERATION.--Daily elevations furnished by Water and Power Resources Service, not rounded to Geological Survey standards.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 41,440 acre-ft (51.1 hm^3) Dec. 23, 1955, elevation, 5,605.55 ft (1,708.572 m); minimum, 37 acre-ft (45,600 m^3) Mar. 4-9, 1955, elevation, 5,521.65 ft (1,682.999 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 40,722 acre-ft (50.2 hm^3) July 7, 8, elevation 5,604.85 ft (1,708.358 m); minimum, 10,100 acre-ft (12.5 hm^3) May 22, elevation 5,562.90 ft (1,695.572 m).

Capacity table (elevation, in feet NGVD, and contents, in acre-feet)

5,548	4,350	5,572	14,920
5,552	5,640	5,576	17,360
5,556	7,110	5,580	20,000
5,560	8,780	5,585	23,590
5,564	10,630	5,590	27,490
5,568	12,670	5,600	36,130
		5,605	40,870

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30918	26843	23068	13656	16173	23589	23216	22994	20347	39704	40042	33423
2	30488	26803	22810	13656	16173	23739	23216	23068	20695	39800	39945	33114
3	30062	26803	22480	13461	16173	23889	23142	23068	21116	39945	39849	32851
4	29554	26763	22225	13378	16203	24040	23068	23031	21471	40187	39704	32588
5	29260	26683	22008	13378	16203	24192	22994	22994	21828	40478	39512	32501
6	28885	26683	21649	13378	16203	24230	22920	22920	22153	40673	39272	32414
7	28429	26643	21399	13323	16203	24230	22847	22847	23031	40722	39080	32370
8	28058	26643	21116	13158	16234	24230	22773	22773	24344	40722	38937	32326
9	27569	26723	20800	13022	16388	24192	22736	22663	25930	40673	38842	32326
10	27084	26803	20451	12886	16604	24154	22626	22517	27650	40673	38652	32370
11	26523	26843	20002	12724	16791	24154	22590	22371	29512	40673	38509	32326
12	26325	26803	19593	12832	16979	24116	22517	22189	31656	40673	38367	32501
13	26364	26723	19323	13489	17168	24116	22517	21435	33956	40673	38131	32457
14	26404	26643	19054	14681	17359	24116	22517	20520	35761	40673	37895	32457
15	26404	26603	18425	15209	17678	24078	22407	19323	37239	40673	37613	32414
16	26404	26484	18066	15507	18001	24002	22081	18001	38272	40673	37426	32414
17	26444	26364	17678	15747	18327	24002	21900	16480	38842	40673	37239	32457
18	26484	26206	17359	15868	18988	23965	21685	14915	39033	40673	37006	32414
19	26523	26009	17042	15898	19797	23927	21471	13712	39224	40673	36774	32326
20	26563	25812	16542	15990	20416	23889	21010	12246	39320	40673	36543	32153
21	26563	25538	16112	16112	20905	23852	20695	10921	39368	40673	36312	32240
22	26563	25305	15808	16173	21328	23776	21258	10100	39416	40673	36036	32066
23	26643	25034	15387	16173	21685	23776	21293	11881	39416	40673	35761	31893
24	26643	24802	15150	16173	22044	23664	21721	13768	39416	40673	35579	31699
25	26683	24496	14915	16173	22334	23589	21936	16542	39464	40673	35351	31307
26	26683	24230	14681	16173	22626	23551	22225	17775	39512	40673	35079	31177
27	26723	24002	14335	16173	22920	23477	22371	18261	39512	40624	34898	31048
28	26763	23739	14050	16173	23216	23439	22517	18722	39608	40624	34582	30875
29	26763	23514	13908	16173	23365	23402	22700	19188	39656	40381	34313	30746
30	26763	23290	13768	16173	---	23328	22847	19525	39704	40284	34000	30275
31	26803	---	13684	16173	---	23253	---	19934	---	40090	33689	---
MAX	30918	26843	23068	16173	23365	24230	23216	23068	39704	40722	40042	33423
MIN	26325	23290	13684	12724	16173	23253	20695	10100	20347	39704	33689	30275
†	5589.15	5584.60	5569.60	5574.10	5584.70	5584.55	5584.00	5579.90	5603.80	5604.20	5597.30	5593.35
‡	-4518	-3513	-9606	+2489	+7192	-112	-406	-2913	+19770	+386	-6401	-3414

CAL YR 1979 ‡ -6871
WTR YR 1980 ‡ -1076

† Elevation, in feet NGVD, at end of month.
‡ Change in contents, in acre-feet.

10344500 LITTLE TRUCKEE RIVER BELOW BOCA DAM, NEAR TRUCKEE, CA

LOCATION.--Lat 39°23'13", long 120°05'40", in NE¼NW¼ sec.28, T.18 N., R.17 E., Nevada County, Hydrologic Unit 16050102, on right bank 800 ft (244 m) upstream from mouth, 1,000 ft (305 m) downstream from Boca Dam, and 6.2 mi (10.0 km) northeast of Truckee.

DRAINAGE AREA.--173 mi^2 (445 km^2).

PERIOD OF RECORD.--April to October 1890 (monthly discharge only), January 1911 to September 1915, January 1939 to current year. Prior to October 1976 published as "at Boca." Monthly discharge only for January 1939 to September 1957, published in WSP 1734.

REVISED RECORDS.--WDR NV-79-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,500 ft (1,676 m), from topographic map. Jan. 1, 1911, to Sept. 30, 1915, nonrecording gage at site 650 ft (200 m) downstream at different datum. January 1939 to September 1957, records computed from daily log of rated settings of needle valve in dam, and from computed flow over spillway.

REMARKS.--Records good. Flow regulated by Boca Reservoir (station 1034490), capacity, 40,870 acre-ft (50.4 hm^3), Independence Lake, capacity, 17,500 acre-ft (21.6 hm^3), one transmountain diversion to Sierra Valley, and Stampede Reservoir (station 10344300), capacity, 226,500 acre-ft (279 hm^3) since Aug. 1, 1969.

AVERAGE DISCHARGE (unadjusted).--45 years (water years 1912-15, 1940-80), 182 ft^3/s (5.154 m^3/s), 131,900 acre-ft/yr (163 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,800 ft^3/s (249 m^3/s) Dec. 24, 1955, from records of Washoe County Water Conservation District; no flow for many days in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 876 ft^3/s (24.8 m^3/s) June 7, gage height, 4.20 ft (1.280 m); minimum, 1.1 ft^3/s (0.031 m^3/s) Apr. 24-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	245	24	141	34	15	30	79	24	841	2.2	48	169
2	238	53	144	36	15	30	102	67	846	2.4	64	181
3	229	40	144	36	24	32	112	94	851	2.2	73	160
4	219	48	151	36	24	34	121	94	856	2.3	102	98
5	219	41	155	36	24	40	125	94	860	2.3	134	90
6	217	48	155	38	25	76	125	94	863	82	118	43
7	217	48	153	64	26	76	130	93	831	98	97	43
8	249	48	153	74	26	76	135	93	673	45	96	25
9	279	48	153	105	26	76	135	116	540	30	96	2.1
10	271	48	173	104	27	76	135	143	477	30	96	51
11	175	39	197	87	27	75	135	142	387	51	105	2.3
12	49	57	199	36	27	73	135	320	260	104	117	29
13	14	81	206	11	27	73	135	520	174	120	131	39
14	14	81	201	11	27	73	172	591	95	92	146	29
15	14	103	193	11	27	73	266	719	27	63	143	29
16	14	114	193	11	27	73	266	798	2.8	90	132	29
17	14	125	191	11	28	79	266	784	2.6	122	132	38
18	14	136	197	13	29	80	237	770	2.5	122	132	47
19	13	144	201	16	29	80	356	755	2.4	122	131	55
20	13	158	201	16	30	80	484	740	2.4	122	146	62
21	13	166	199	16	30	80	376	723	2.3	94	158	62
22	13	169	199	16	30	80	171	607	2.3	74	151	99
23	13	151	199	15	30	80	62	399	2.2	64	144	143
24	13	143	166	15	30	80	1.1	461	2.2	49	144	172
25	13	146	136	15	30	80	1.1	533	2.3	60	144	146
26	12	133	138	15	30	79	1.1	679	2.3	73	144	104
27	13	119	138	15	30	79	1.1	816	2.2	73	152	104
28	14	119	130	15	30	79	1.1	821	2.2	96	159	104
29	14	128	122	15	30	79	1.1	827	2.2	119	171	183
30	15	133	122	15	---	79	1.1	832	2.1	97	182	310
31	15	---	80	15	---	79	---	837	---	60	169	---
TOTAL	2865	2891	5130	953	780	2179	4267.7	14586	8616.0	2163.4	3957	2648.4
MEAN	92.4	96.4	165	30.7	26.9	70.3	142	471	287	69.8	128	88.3
MAX	279	169	206	105	30	80	484	837	863	122	182	310
MIN	12	24	80	11	15	30	1.1	24	2.1	2.2	48	2.1
AC-FT	5680	5730	10180	1890	1550	4320	8460	28930	17090	4290	7850	5250

CAL YR 1979 TOTAL 42296.90 MEAN 116 MAX 1390 MIN .32 AC-FT 83900
WTR YR 1980 TOTAL 51036.50 MEAN 139 MAX 863 MIN 1.1 AC-FT 101200

10346000 TRUCKEE RIVER AT FARAD, CA

LOCATION.--Lat 39°25'41", long 120°01'59", in SE¼NE¼ sec.12, T.18 N., R.17 E., Nevada County, Hydrologic Unit 16050102, on left bank 0.5 mi (0.8 km) upstream from Mystic Canyon, 0.7 mi (1.1 km) downstream from Farad powerplant, 2.5 mi (4.0 km) north of Floriston, 3.4 mi (5.5 km) downstream from Bronco Creek, and 3.5 mi (5.6 km) upstream from California-Nevada State line.

DRAINAGE AREA.--932 mi^2 (2,414 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March to October 1890 (monthly discharge only), September 1899 to current year. Monthly discharge only for January 1944 to July 1957, published in WSP 1734. Published as "near Boca" March to October 1890, "at or near Nevada-California State line" September 1899 to August 1912, and as "at Iceland" August 1912 to December 1937.

REVISED RECORDS.--WSP 1714: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,153.21 ft (1,570.698 m) National Geodetic Vertical Datum of 1929 (Water and Power Resources Service bench mark). See WSP 2127 for history of changes prior to Aug 26, 1957.

REMARKS.--Records good. Flow regulated by Lake Tahoe (station 10337000), Martis Creek Lake (station 10339380), Prosser Creek, Stampede and Boca Reservoirs (stations 10343300 and 10344490), Donner and Independence Lakes, and by several powerplants.

AVERAGE DISCHARGE.--81 years (1900-1980), 787 ft^3/s (22.29 m^3/s), 570,200 acre-ft/yr (703 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,500 ft^3/s (496 m^3/s) Nov. 21, 1950, gage height, 14.5 ft (4.420 m), present datum, from floodmarks, from slope-area measurement of peak flow; minimum, 28 ft^3/s (0.793 m^3/s) Dec. 18, 1930.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,150 ft^3/s (231 m^3/s) Jan. 14, gage height, 9.70 ft (2.957 m); minimum, 291 ft^3/s (8.24 m^3/s) Nov. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	458	390	312	506	402	610	471	1500	2280	780	498	557
2	437	345	315	426	393	593	494	1530	2310	870	498	588
3	425	304	305	392	393	590	496	1700	2230	897	502	601
4	411	319	308	356	369	583	500	1830	2190	779	502	577
5	408	299	310	317	339	576	543	1820	2170	712	548	542
6	409	302	305	310	352	597	535	1790	2040	718	570	552
7	413	353	304	324	351	565	523	1850	1910	723	555	552
8	412	339	302	301	340	531	531	1900	1760	644	551	557
9	397	355	300	343	333	517	547	1910	1660	579	552	513
10	416	315	304	367	332	511	578	1830	1570	560	549	523
11	422	291	305	365	326	516	601	1710	1420	541	549	481
12	4Wd	299	302	2250	322	499	615	1650	1260	582	526	485
13	458	311	321	5100	334	501	689	1770	1100	592	532	485
14	458	296	315	4150	370	502	868	1760	949	561	552	467
15	458	310	300	2640	414	503	1100	1850	933	513	551	476
16	456	311	297	2900	456	483	1140	2140	970	506	542	485
17	458	307	292	2750	684	484	1260	2200	1010	571	544	490
18	462	319	298	2330	1700	471	1360	2240	1020	563	536	499
19	513	305	306	1640	1650	449	1550	2270	1000	545	518	494
20	576	316	300	882	1360	453	1810	2330	968	532	515	504
21	504	308	308	751	1130	457	1690	2410	930	529	525	504
22	496	319	303	646	950	445	1280	2520	860	529	545	499
23	493	318	306	604	833	439	1010	2400	806	545	537	509
24	497	316	356	583	782	435	919	2270	766	523	536	552
25	524	408	315	518	708	430	990	2270	765	526	532	537
26	609	383	333	426	632	423	1080	2230	748	533	524	504
27	566	330	352	427	640	424	1170	2280	698	524	530	490
28	557	312	324	497	678	426	1340	2250	687	530	536	481
29	534	308	314	471	633	435	1500	2270	748	583	543	494
30	461	311	346	438	---	465	1540	2280	762	565	558	523
31	424	---	434	413	---	467	---	2320	---	527	550	---
TOTAL	14536	9699	9792	34423	18206	15380	28730	63080	38520	18682	16606	15521
MEAN	469	323	316	1110	628	496	958	2035	1284	603	536	517
MAX	609	408	434	5100	1700	610	1810	2520	2310	897	570	601
MIN	397	291	292	301	322	423	471	1500	687	506	498	467
AC-FT	28830	19240	19420	68280	36110	30510	56990	125100	76400	37060	32940	30790

CAL YR 1979 TOTAL 186189 MEAN 510 MAX 2470 MIN 162 AC-FT 369300
WTR YR 1980 TOTAL 283175 MEAN 774 MAX 5100 MIN 291 AC-FT 561700

BEST DOCUMENT AVAILABLE

10346000 TRUCKEE RIVER AT FARAD, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1951 to current year (published as Truckee River at Floriston, sta. no. 10345900, January 1964 to September 1971).
CHEMICAL ANALYSES: April 1951 to September 1952, occasional; October 1952 to September 1958, monthly (seasonal); October 1958 to September 1961, monthly; January 1964 to February 1968, once-daily (composited); March 1968 to September 1969, once-daily (composited) and monthly; October 1969 to April 1974, monthly; June 1974 to current year, twice-monthly.
SPECIFIC CONDUCTANCES: April 1951 to September 1952, occasional; October 1952 to September 1958, monthly (seasonal); October 1958 to September 1961, monthly; January 1964 to current year, once-daily.
BIOLOGICAL DATA: January 1975 to September 1978, monthly.
MICROBIOLOGICAL DATA: June 1967 to June 1974, monthly; July 1974 to current year, twice-monthly (data prior to January 1975 are unpublished).
WATER TEMPERATURES: March 1960 to December 1963, monthly; January 1964 to current year, once-daily.
SEDIMENT DATA: February 1974 to October 1977, monthly.

REMARKS.--Water quality at this site is considered comparable with that of sta. no. 10345900, Truckee River at Floriston, which was operated 2.5 mi (4.0 km) upstream from present site from January 1964 to September 1971. Daily specific-conductance and temperature data are collected at Farad powerplant, 0.7 mi (1.1 km) upstream from gage.

COOPERATION.--Samples through September 1961 were collected by California Department of Water Resources. Microbiological analyses through February 1979 by Nevada Bureau of Laboratories and Research.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 377 micromhos Dec. 27, 1979; minimum, 39 micromhos Dec. 23, 1964.
PHYTOPLANKTON: Maximum, 1,700 cells/mL June 13, 1977; minimum, 270 cells/mL Dec. 13, 1976.
FECAL STREPTOCOCCI (since July 1974): Maximum, 200 colonies/100 mL (non-ideal colony count) July 6, Aug. 2, 1976; minimum, less than 2 colonies/100 mL several times during period of record.
WATER TEMPERATURES: Maximum, 21.0°C Aug. 2, 6, 1971, June 27, 1977; minimum, freezing point on several days during winter months of most years.
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 42 mg/L May 21, 1975; minimum, 2 mg/L Dec. 8, 1975, Jan. 7, 1976.

EXTREMES FOR CURRENT YEAR (MEASUREMENTS AT LEAST ONCE-DAILY).--
SPECIFIC CONDUCTANCES: Maximum, 377 micromhos Dec. 27; minimum, 61 micromhos Sept. 3.
WATER TEMPERATURES: Maximum, 18.0°C Aug. 1; minimum, freezing point Dec. 28.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L)	COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT											
04...	1110	413	108	7.6	13.5	1.5	9.2	17	130	<1	K22
NOV											
07...	0915	347	133	8.1	6.5	.60	10.5	10	150	K11	72
21...	1110	296	127	7.6	3.5	.50	11.9	46	78	<1	24
DEC											
05...	1015	310	124	8.0	4.0	.50	11.6	14	--	<1	22
19...	1100	300	122	7.5	4.0	.80	11.3	16	--	--	--
JAN											
04...	1130	366	145	7.1	2.5	1.4	11.5	16	--	--	--
FEB											
06...	1100	352	118	7.4	5.0	2.4	11.0	10	--	--	--
29...	1310	629	118	--	4.5	7.2	11.2	14	--	--	--
MAR											
18...	1000	481	117	7.9	3.5	2.7	11.2	14	--	--	--
APR											
03...	0905	499	113	7.9	5.0	3.4	11.6	17	--	--	--
23...	1400	978	89	7.3	8.0	3.3	10.4	14	--	--	--
MAY											
05...	1200	1770	71	--	7.5	6.7	10.2	17	--	K3	--
22...	1130	2400	63	7.1	9.0	7.5	9.5	17	--	K9	--
JUN											
03...	1045	2240	61	7.8	8.0	2.2	10.0	17	--	--	--
20...	1330	912	65	7.4	11.0	1.4	9.5	0	--	1	--
JUL											
01...	1400	740	61	7.7	11.5	2.7	9.1	8	--	K2	--
17...	0930	592	72	7.4	13.5	1.7	9.2	9	--	13	--
AUG											
05...	1000	552	92	7.6	13.5	2.2	8.9	6	--	35	--
14...	1030	552	91	7.6	13.5	2.9	8.8	13	--	K15	--
SEP											
04...	1030	592	90	7.5	13.0	1.5	9.2	18	--	K10	--

K: NON-IDEAL COLONY COUNT.

10346000 TRUCKEE RIVER AT FARAD, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	HARDNESS (MG/L AS CACO3)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K)	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY FIELD (MG/L AS CACO3)
OCT											
04...	--	--	--	--	--	--	--	--	--	--	--
NOV											
07...	--	--	--	--	--	--	--	--	--	--	38
21...	--	--	--	--	--	--	--	--	--	--	42
DEC											
05...	--	--	--	--	--	--	--	--	--	--	39
19...	41	10	8.7	--	4.7	6.0	5.9	.4	1.4	1.5	39
JAN											
04...	--	--	--	--	--	--	--	--	--	--	39
FEB											
06...	--	--	--	--	--	--	--	--	--	--	38
29...	--	--	--	--	--	--	--	--	--	--	34
MAR											
18...	39	10	10	3.3	3.5	--	7.6	.5	--	1.3	39
APR											
03...	--	--	--	--	--	--	--	--	--	--	37
23...	--	--	--	--	--	--	--	--	--	--	31
MAY											
05...	--	--	--	--	--	--	--	--	--	--	
22...	--	--	--	--	--	--	--	--	--	--	26
JUN											
03...	--	--	--	--	--	--	--	--	--	--	28
20...	23	--	6.3	1.7	1.8	3.5	3.7	.3	1.0	1.1	23
JUL											
01...	--	--	--	--	--	--	--	--	--	--	23
17...	--	--	--	--	--	--	--	--	--	--	32
AUG											
05...	--	--	--	--	--	--	--	--	--	--	39
14...	--	--	--	--	--	--	--	--	--	--	38
SEP											
04...	32	10	8.5	2.6	2.6	--	5.3	.4	1.4	1.4	39

DATE	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)
OCT											
04...	--	--	--	--	--	--	--	9	.12	.02	--
NOV											
07...	--	--	--	--	--	--	--	24	.01	.02	--
21...	--	--	--	--	--	--	--	0	.12	.00	--
DEC											
05...	--	--	--	--	--	--	--	0	--	.01	--
19...	3.7	5.8	.1	14	81.0	63.0	65.6	0	.26	.02	.05
JAN											
04...	--	--	--	--	--	--	--	2	.11	.01	--
FEB											
06...	--	--	--	--	--	--	--	1	.34	.00	--
29...	--	--	--	--	--	--	--	11	.14	.02	--
MAR											
18...	3.0	13	.0	18	86.0	81.0	112	0	.13	.01	.18
APR											
03...	--	--	--	--	--	--	--	2	.08	.00	--
23...	--	--	--	--	--	--	--	0	.01	.01	--
MAY											
05...	--	--	--	--	--	--	--	28	.01	.00	--
22...	--	--	--	--	--	--	--	9	.06	.01	--
JUN											
03...	--	--	--	--	--	--	--	23	.05	.01	--
20...	4.2	3.1	.1	17	61.0	52.0	150	9	.07	.01	.10
JUL											
01...	--	--	--	--	--	--	--	21	.02	.02	--
17...	--	--	--	--	--	--	--	16	.00	.01	--
AUG											
05...	--	--	--	--	--	--	--	15	.07	.02	--
14...	--	--	--	--	--	--	--	4	.12	.00	--
SEP											
04...	4.7	3.5	.1	15	64.0	65.0	102	7	.12	.01	.10

10346000 TRUCKEE RIVER AT FARAD, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, DISSOLVED (MG/L AS N)	PHOSPHORUS TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
04...	.01	--	.46	--	.47	.61	--	.00	--	2.2
NOV										
07...	.03	--	.31	--	.34	.37	--	.02	--	5.2
21...	.01	--	.33	--	.34	.46	--	.01	--	3.0
DEC										
05...	.01	--	.53	--	.54	--	--	.07	--	2.6
19...	.01	.01	.51	.22	.52	.80	.28	.01	.00	3.4
JAN										
04...	.02	--	.91	--	.93	1.1	--	.01	--	2.1
FEB										
06...	.00	--	.45	--	.45	.79	--	.01	--	2.9
29...	.04	--	.00	--	.04	.20	--	.01	--	1.9
MAR										
18...	.00	.00	.20	.14	.20	.34	.32	.05	.01	1.9
APR										
03...	.00	--	.47	--	.47	.55	--	.04	--	2.3
23...	.00	--	.33	--	.33	.35	--	.01	--	2.4
MAY										
05...	.01	--	.58	--	.59	.60	--	.05	--	5.2
22...	.01	--	.40	--	.41	.48	--	.05	--	4.2
JUN										
03...	.01	--	.28	--	.29	.35	--	.07	--	3.0
20...	.00	.03	.39	.38	.39	.47	.51	.02	.01	2.4
JUL										
01...	.03	--	.39	--	.42	.46	--	.06	--	11
17...	.01	--	.57	--	.58	.58	--	.05	--	2.5
AUG										
05...	.01	--	.44	--	.45	.54	--	.04	--	3.2
14...	.00	--	.45	--	.45	.57	--	.03	--	2.6
SEP										
04...	.03	.04	.41	--	.44	.57	--	.01	.00	3.1

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, DISSOLVED (UG/L AS BA)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)
OCT									
04...	1110	--	--	--	--	--	--	--	--
NOV									
07...	0915	--	--	--	--	--	--	--	--
21...	1110	--	--	--	--	--	--	--	--
DEC									
05...	1015	--	--	--	--	--	--	--	--
19...	1100	4	3	300	30	1	2	20	0
JAN									
04...	1130	--	--	--	--	--	--	--	--
FEB									
06...	1100	--	--	--	--	--	--	--	--
29...	1310	--	--	--	--	--	--	--	--
MAR									
18...	1000	1	3	0	30	0	1	0	0
APR									
03...	0905	--	--	--	--	--	--	--	--
23...	1400	--	--	--	--	--	--	--	--
MAY									
05...	1200	--	--	--	--	--	--	--	--
22...	1130	--	--	--	--	--	--	--	--
JUN									
03...	1045	--	--	--	--	--	--	--	--
20...	1330	3	2	0	20	0	<1	0	0
JUL									
01...	1400	--	--	--	--	--	--	--	--
17...	0930	--	--	--	--	--	--	--	--
AUG									
05...	1000	--	--	--	--	--	--	--	--
14...	1030	--	--	--	--	--	--	--	--
SEP									
04...	1030	3	2	0	20	0	<1	20	0

BEST DOCUMENT AVAILABLE

10346000 TRUCKEE RIVER AT FARAD, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	COBALT TOTAL RECOV-ERABLE (UG/L AS CO)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)
OCT									
04...	--	--	--	--	200	--	--	--	--
NOV									
07...	--	--	--	--	100	--	--	--	--
21...	--	--	--	--	80	--	--	--	--
DEC									
05...	--	--	--	--	130	--	--	--	--
19...	0	<3	3	0	110	40	12	1	30
JAN									
04...	--	--	--	--	240	--	--	--	--
FEB									
06...	--	--	--	--	560	--	--	--	--
29...	--	--	--	--	370	--	--	--	--
MAR									
18...	0	<3	3	1	280	40	2	0	20
APR									
03...	--	--	--	--	250	--	--	--	--
23...	--	--	--	--	400	--	--	--	--
MAY									
05...	--	--	--	--	1000	--	--	--	--
22...	--	--	--	--	520	--	--	--	--
JUN									
03...	--	--	--	--	350	--	--	--	--
20...	0	<3	11	3	350	20	11	4	40
JUL									
01...	--	--	--	--	730	--	--	--	--
17...	--	--	--	--	580	--	--	--	--
AUG									
05...	--	--	--	--	320	--	--	--	--
14...	--	--	--	--	320	--	--	--	--
SEP									
04...	0	<3	3	1	300	30	5	0	40

DATE	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT									
04...	--	--	--	--	--	--	--	--	--
NOV									
07...	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--
DEC									
05...	--	--	--	--	--	--	--	--	--
19...	30	.0	.0	0	0	1	1	40	10
JAN									
04...	--	--	--	--	--	--	--	--	--
FEB									
06...	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--
MAR									
18...	20	.0	.0	0	0	0	0	10	3
APR									
03...	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--
MAY									
05...	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--
JUN									
03...	--	--	--	--	--	--	--	--	--
20...	10	.1	.0	0	0	0	0	80	<3
JUL									
01...	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--
AUG									
05...	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--
SEP									
04...	10	.1	.0	0	0	0	0	70	<3

10346000 TRUCKEE RIVER AT FARAD, CA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	101	---	102			---	108			89	66
2	---	102	---	100			109	71			---	62
3	---	108	---	102			105	---			---	61
4	---	---	---	102			105	---			84	63
5	103	98	94	---			71	---			82	66
6	99	101	93	111			---	---			---	66
7	99	94	96	106			105	---			84	67
8	99	94	96	98			104	---			89	---
9	102	92	94	98			103	67			---	75
10	---	94	---	98			102	---			87	76
11	98	92	93	---			99	78			---	78
12	98	90	91	115			---	69			---	75
13	233	89	96	---			99	77			91	74
14	176	---	---	---			89	---			84	74
15	128	94	96	66			---	---			84	76
16	101	92	92	66			---	---			82	78
17	101	98	89	---			80	---			84	76
18	---	101	94	64			74	---			---	75
19	---	98	94	66			---	---			---	---
20	99	92	96	90			70	---			---	80
21	99	90	---	85			72	---			---	78
22	98	90	98	93			78	---			---	78
23	94	90	94	97			---	---			---	78
24	91	101	100	98			86	---			---	---
25	89	102	164	---			80	---			---	80
26	---	99	254	98			86	---			---	81
27	92	102	377	115			111	---			---	81
28	94	102	101	98			112	---			---	---
29	92	99	101	100			---	---			---	---
30	94	---	110	---			71	---			---	---
31	101	---	112	---			---	---			---	---
MEAN	108	96	118	105			91	78			85	74

WTR YR 1980 MEAN 97 MAX 377 MIN 61

TEMPERATURE, WATER (DEG. C), WATER YEAP OCTOBER 1979 TO SEPTEMBER 1980
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	7.0	---	1.0			---	5.5			18.0	9.5
2	14.5	8.0	---	1.5			5.5	---			---	9.5
3	12.0	7.0	---	1.0			6.0	---			---	10.0
4	---	---	---	2.5			4.5	---			17.0	10.0
5	14.0	5.0	4.0	---			4.0	---			13.5	11.0
6	---	---	4.5	4.0			---	---			---	14.5
7	13.0	6.0	3.0	4.0			4.0	---			14.0	14.0
8	14.0	5.0	3.0	4.5			5.0	---			14.5	---
9	12.5	5.5	3.0	4.0			6.0	5.5			---	11.0
10	---	5.0	---	1.0			5.0	---			14.5	10.5
11	12.0	4.5	2.0	2.5			6.0	5.5			---	11.5
12	12.5	4.0	1.5	3.0			---	6.0			---	11.5
13	10.5	4.0	1.5	---			8.0	8.0			13.0	11.5
14	11.0	---	---	---			6.5	---			13.5	13.5
15	11.0	4.0	2.0	3.0			7.0	---			13.0	11.5
16	11.0	6.5	1.5	3.0			---	---			13.0	15.0
17	---	7.0	1.5	---			5.5	---			14.0	13.0
18	---	6.0	3.0	2.5			5.0	---			---	13.0
19	---	5.0	4.0	2.0			---	---			---	---
20	10.0	4.0	2.0	1.5			5.0	---			---	14.5
21	11.0	2.0	---	1.5			7.0	---			---	14.5
22	9.0	3.5	2.0	1.5			5.0	---			---	14.5
23	12.0	5.0	1.0	1.5			---	---			---	14.5
24	9.5	5.0	2.5	1.5			6.0	---			---	---
25	11.0	5.0	1.0	---			6.0	---			---	17.0
26	---	5.0	2.0	---			5.0	---			---	17.5
27	10.5	4.0	1.0	2.0			5.0	---			---	17.0
28	9.0	3.5	.0	2.5			5.0	---			---	---
29	8.5	4.0	.5	1.5			---	---			---	---
30	8.0	---	1.5	---			7.0	---			---	---
31	7.5	---	2.0	---			---	---			---	---
MEAN	11.0	5.0	2.0	2.5			5.5	6.0			14.5	13.0

WTR YR 1980 MEAN 7.0 MAX 18.0 MIN .0

10347600 HUNTER CREEK NEAR RENO, NV

LOCATION.--Lat 39°29'25", long 119°53'55", in SW¼SW¼ sec.19, T.19 N., R.19 E., Washoe County, Hydrologic Unit 16050102, on right bank 1.0 mi (1.6 km) upstream from mouth, 1.2 mi (1.9 km) upstream from Hunter Creek Reservoir and 5 mi (8.0 km) southwest of Reno.

DRAINAGE AREA.--11.5 m^2 (29.8 km^2).

PERIOD OF RECORD.--October 1961 to September 1971, October 1977 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,070 ft (1,545 m), from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--13 years (1962-1971, 1978-1980) 10.2 ft^3/s (0.289 m^3/s), 7,390 acre-ft/yr (9.11 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 986 ft^3/s (27.9 m^3/s) Jan. 31, 1963, gage height, 6.93 ft (2.112 m), from floodmarks, from rating curve extended above 54 ft^3/s (1.53 m^3/s) on basis of slope-area measurement of peak flow; minimum, 1.4 ft^3/s (0.040 m^3/s) Dec. 20, 21, 1962.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 20 ft^3/s (0.57 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 13	2100	*71	2.01	2.25	0.686	May 22	1800	40	1.13	1.82	0.555
May 6	2200	28	0.79	1.68	0.512	July 2	2300	39	1.10	1.80	0.549

Minimum daily discharge, 3.0 ft^3/s (0.085 m^3/s) Jan. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	4.4	4.1	4.7	4.7	6.4	5.0	19	24	29	11	6.7
2	3.8	4.7	4.1	4.7	4.6	6.4	5.0	21	23	33	11	6.4
3	3.8	5.0	4.1	4.1	5.3	6.4	5.0	22	22	29	11	6.4
4	3.8	4.7	4.1	4.1	5.3	6.0	5.0	25	23	28	10	6.0
5	4.1	4.7	4.4	4.1	5.3	6.0	6.0	25	22	28	10	6.4
6	4.4	4.7	4.4	4.1	5.0	6.0	5.3	26	21	26	9.5	6.4
7	4.4	4.7	4.4	4.1	5.0	5.7	5.3	26	22	25	9.5	6.7
8	4.7	4.7	4.4	4.1	5.0	5.3	5.3	26	24	25	9.1	7.9
9	4.4	4.7	4.4	4.4	5.0	5.7	5.7	25	25	24	9.1	7.1
10	4.4	4.7	4.4	3.0	4.7	5.3	6.0	22	28	24	8.6	6.7
11	4.4	4.7	4.2	5.7	4.7	5.7	6.4	21	28	22	8.6	7.1
12	4.4	4.7	4.1	16	4.7	5.3	6.7	20	28	21	8.6	6.7
13	4.4	4.7	4.1	38	4.7	5.3	7.5	19	28	21	8.2	6.7
14	4.4	4.7	4.1	22	4.7	5.3	9.5	19	26	21	8.2	6.7
15	4.4	4.4	4.1	10	5.0	5.3	9.5	20	28	20	8.2	6.7
16	4.4	4.4	3.8	8.2	5.0	5.3	10	21	28	19	7.9	6.7
17	4.4	4.4	4.1	7.5	7.1	5.3	13	22	29	18	7.9	6.4
18	4.7	4.4	4.1	7.1	13	5.3	14	23	30	18	7.9	6.4
19	5.3	4.4	4.4	6.0	11	5.3	15	26	31	17	7.9	6.4
20	5.3	4.4	4.4	5.7	8.6	5.3	15	28	32	17	7.5	6.4
21	5.0	4.4	4.4	5.3	7.9	5.3	14	31	32	16	7.5	6.4
22	5.0	4.4	4.4	5.0	7.1	5.3	13	35	32	15	8.2	6.4
23	5.0	4.4	6.7	4.7	7.1	5.3	12	34	31	15	8.2	6.4
24	5.0	4.4	4.7	4.7	6.7	5.0	13	31	32	15	7.9	6.4
25	5.3	4.4	4.7	4.4	6.4	5.0	14	28	32	14	7.5	6.0
26	5.0	4.4	4.1	4.4	6.4	5.0	15	27	32	13	7.5	6.0
27	5.0	4.3	4.1	4.4	6.7	5.0	17	25	31	13	7.5	5.7
28	5.0	4.2	4.1	4.4	7.1	5.0	18	24	30	13	7.1	5.7
29	4.7	4.2	4.4	4.5	6.7	5.0	19	24	30	13	7.1	5.7
30	4.7	4.1	4.9	4.6	---	5.0	19	24	30	12	6.7	5.7
31	4.7	---	4.9	4.7	---	5.0	---	24	---	12	6.7	---
TOTAL	142.1	135.4	135.6	218.7	180.5	168.5	314.2	763	834	616	261.6	193.3
MEAN	4.58	4.51	4.37	7.05	6.22	5.44	10.5	24.6	27.8	19.9	8.44	6.44
MAX	5.3	5.0	6.7	38	13	6.4	19	35	32	33	11	7.9
MIN	3.8	4.1	3.8	3.0	4.6	5.0	5.0	19	21	12	6.7	5.7
AC-FT	282	269	269	434	358	334	623	1510	1650	1220	519	383

CAL YR 1979 TOTAL 2329.7 MEAN 6.38 MAX 22 MIN 3.1 AC-FT 4620
WTR YR 1980 TOTAL 3962.9 MEAN 10.8 MAX 38 MIN 3.0 AC-FT 7860

10348000 TRUCKEE RIVER AT RENO, NV

LOCATION.--Lat 39°31'53", long 119°47'07", in NW¼ sec.7, T.19 N., R.20 E., Washoe County, Hydrologic Unit 16050102, on left bank 400 ft (120 m) downstream from Kietzke Lane bridge, 0.5 mi (0.8 km) downstream from Scott Island, 1.5 mi (2.4 km) east of Reno Post Office, and 5 mi (8 km) upstream from Steamboat Creek.

DRAINAGE AREA.--1,067 mi^2 (2,764 km^2).

PERIOD OF RECORD.--July 1906 to September 1921, June 1925 to September 1926, January 1930 to December 1935, January to December 1943, January 1946 to current year. Monthly discharge only for some periods, published in WSP 1314 and 1734.

REVISED RECORDS.--WSP 1714: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,431.97 ft (1,350.864 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). July 1906 to September 1946, nonrecording gage at site 1 mi (2 km) upstream at different datum.

REMARKS.--Records good. Flow regulated by Lake Tahoe, Martis Creek Lake, Prosser Creek, Stampede and Boca Reservoirs, Donner and Independence Lakes, and by several powerplants. Many diversions above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--54 years (1906-21, 1925-26, 1930-34, 1946-80), 662 ft^3/s (18.75 m^3/s), 479,600 acre-ft/yr (591 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,800 ft^3/s (589 m^3/s) Dec. 23, 1955; maximum gage height, 13.83 ft (4.215 m) Nov. 21, 1950; no flow Sept. 12, 14-24, 26-30, 1926.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,630 ft^3/s (244 m^3/s) Jan. 14, gage height, 9.79 ft (2.984 m); minimum, 141 ft^3/s (3.99 m^3/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	182	392	296	524	465	732	470	1330	1950	538	229	252
2	186	348	296	455	460	715	470	1330	1970	616	210	282
3	163	303	296	402	456	709	480	1490	1920	703	224	287
4	165	302	288	377	447	691	475	1630	1880	571	212	293
5	170	300	300	327	405	685	549	1650	1870	504	239	282
6	181	279	316	316	414	687	549	1570	1720	464	318	309
7	180	308	308	320	418	668	524	1630	1570	488	321	295
8	212	325	304	335	410	622	534	1660	1430	446	313	316
9	225	325	296	372	398	602	544	1630	1350	384	313	293
10	236	306	300	476	397	595	581	1590	1280	350	307	268
11	256	283	300	439	391	591	597	1470	1180	310	245	239
12	241	270	289	2540	387	574	613	1380	1040	322	229	219
13	253	290	308	6520	375	569	668	1500	927	334	223	236
14	280	288	312	5030	420	558	805	1490	780	325	239	223
15	288	288	300	2830	475	555	1070	1530	738	268	252	228
16	285	304	296	2980	529	534	1110	1830	762	242	249	237
17	275	292	296	2810	818	529	1190	1880	805	282	255	222
18	285	296	296	2360	2380	531	1290	1920	805	287	269	224
19	333	300	312	1700	2160	513	1400	1960	787	269	255	229
20	445	296	308	935	1640	506	1690	2030	750	254	226	236
21	386	292	312	811	1400	505	1650	2130	720	245	233	241
22	376	300	307	697	1180	492	1250	2260	657	239	250	243
23	390	312	308	663	996	481	996	2190	613	261	259	244
24	388	300	400	640	928	472	837	1990	570	260	256	268
25	409	357	350	607	856	463	882	2010	555	242	252	291
26	500	369	323	499	768	466	962	1900	544	245	252	257
27	510	332	344	480	780	459	1030	1960	509	245	245	236
28	508	300	327	565	843	449	1180	1910	493	242	252	227
29	512	288	316	539	768	451	1320	1920	520	290	252	220
30	470	300	352	504	---	475	1410	1960	540	298	260	264
31	424	---	485	475	---	476	---	2040	---	244	269	---
TOTAL	9714	9245	9841	38528	22364	17355	27126	54770	31235	10768	7908	7661
MEAN	313	308	317	1243	771	560	904	1767	1041	347	255	255
MAX	512	392	485	6520	2380	732	1690	2260	1970	703	321	316
MIN	163	270	288	316	375	449	470	1330	493	239	210	219
AC-FT	19270	18340	19520	76420	44360	34420	53800	108600	61950	21360	15690	15200

CAL YR 1979 TOTAL 139694 MEAN 383 MAX 2230 MIN 144 AC-FT 277100
WTR YR 1980 TOTAL 246515 MEAN 674 MAX 6520 MIN 163 AC-FT 489000

10348200 TRUCKEE RIVER NEAR SPARKS, NV

LOCATION.--Lat 39°31'11", long 119°44'27", in SW¼NW¼NE¼ sec.16, T.19 N., R.20 E., Washoe County, Hydrologic Unit 16050102, on left bank 400 ft (122 m) upstream from McCarren Boulevard bridge, 1 mi (1.6 km) south of Southern Pacific Railroad in Sparks, and 2.5 mi (4 km) upstream from Steamboat Creek.

DRAINAGE AREA.--1,070 mi^2 (2,770 km^2), approximately.

PERIOD OF RECORD.--April 1977 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,390 ft (1,340 m), from topographic map.

REMARKS.--Records good. Flow regulated by Lake Tahoe, Martis Creek Lake, Prosser Creek, Stampede and Boca Reservoirs, Donner and Independence Lakes, and by several powerplants. Many diversions above stations.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,110 ft^3/s (258 m^3/s) Jan. 14, 1980, gage height, 12.03 ft (3.667 m); minimum, 2.0 ft^3/s (0.057 m^3/s), Nov. 17, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,110 ft^3/s (258 m^3/s) Jan. 14, gage height, 12.03 ft (3.667 m); minimum, 99 ft^3/s (2.80 m^3/s), Oct. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	143	359	253	517	397	667	470	1340	1990	463	172	172
2	157	318	250	440	393	661	468	1330	1980	541	144	201
3	125	269	254	379	392	661	487	1480	1970	689	162	218
4	130	265	243	362	392	643	479	1640	1900	532	165	225
5	128	260	252	321	346	643	547	1670	1900	447	171	215
6	146	235	265	302	368	637	556	1570	1750	399	200	260
7	146	258	261	296	374	625	523	1630	1580	411	223	245
8	174	282	256	309	366	572	520	1680	1420	370	220	255
9	174	301	248	330	357	555	528	1610	1330	305	220	251
10	183	280	250	488	357	550	563	1580	1250	258	215	226
11	196	255	250	386	349	550	589	1460	1150	229	175	211
12	190	237	241	1990	344	533	603	1350	996	234	160	171
13	202	237	268	5610	327	539	662	1460	848	254	150	181
14	219	241	270	5660	379	533	803	1470	677	235	161	173
15	236	232	266	2790	426	528	1060	1490	641	193	166	182
16	243	249	253	2950	485	512	1090	1810	666	165	161	193
17	232	254	255	2840	673	501	1170	1860	721	199	173	175
18	244	262	261	2410	2150	501	1290	1900	730	202	185	174
19	299	260	264	1740	2190	485	1390	1940	716	185	183	183
20	424	253	263	933	1620	480	1730	2010	670	167	150	193
21	369	249	271	772	1380	485	1690	2120	645	168	149	198
22	358	253	263	636	1130	470	1270	2290	586	160	166	206
23	368	269	267	600	946	455	986	2230	536	177	202	207
24	365	259	340	575	873	445	788	2030	488	187	196	230
25	387	315	303	543	790	440	837	2040	482	170	180	259
26	490	329	266	429	686	440	909	1930	472	167	172	220
27	510	302	295	404	705	435	990	1970	414	172	161	200
28	511	259	282	494	790	440	1150	1930	401	171	168	191
29	509	256	277	477	711	435	1300	1910	430	215	178	185
30	451	254	321	437	---	460	1410	1960	460	230	191	228
31	395	---	472	406	---	465	---	2030	---	184	186	---
TOTAL	8704	8052	8480	36826	20696	16346	26858	54720	29799	8479	5505	6228
MEAN	281	268	274	1188	714	527	895	1765	993	274	178	208
MAX	511	359	472	5660	2190	667	1730	2290	1990	689	223	260
MIN	125	232	241	296	327	435	468	1330	401	160	144	171
AC-FT	17260	15970	16820	73040	41050	32420	53270	108500	59110	16820	10920	12350

CAL YR 1979 TOTAL 127386 MEAN 349 MAX 2120 MIN 95 AC-FT 252700
WTR YR 1980 TOTAL 230693 MEAN 630 MAX 5660 MIN 125 AC-FT 457600

10348460 FRANKTOWN CREEK NEAR CARSON CITY, NV

LOCATION.--Lat 39°12'12", long 119°52'17", in NW¼SW¼SE¼ sec.32, T.16 N., R.19 E., Washoe County, Hydrologic Unit 16050102, in Toiyabe National Forest, on right bank 300 ft (100 m) upstream from Red House diversion dam, 0.2 mi (0.3 km) upstream from Red House, and 6.1 mi (9.8 km) northwest of Carson City.

DRAINAGE AREA.--3.24 mi^2 (8.39 km^2).

PERIOD OF RECORD.--June 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,380 ft (2,250 m), from topographic map.

REMARKS.--Records good, except for winter months and those above 10 ft^3/s (0.28 m^3/s), which are poor. Flow regulated by Hobart Reservoir, and by pumping from Marlette Lake during dry years. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--6 years (1975-1980) 2.76 ft^3/s (0.0782 m^3/s), 2,000 acre-ft/yr (2.47 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 145 ft^3/s (4.11 m^3/s) Feb. 21, 1980, gage height 2.48 ft (0.756 m); maximum gage height, 3.68 ft (1.122 m), backwater from ice or snowblock; minimum discharge, 0.48 ft^3/s (0.014 m^3/s) Sept. 9-11, 13-17, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 145 ft^3/s (4.11 m^3/s) Feb. 21, gage height, 2.48 ft; maximum gage height 2.65 ft (0.808 m) Jan. 10 (backwater from ice); minimum daily discharge, 1.1 ft^3/s (0.031 m^3/s) Oct. 1-3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	1.7	1.5	3.0	1.6	1.7	1.8	6.9	8.4	4.3	2.1	1.9
2	1.1	1.7	1.6	2.3	1.6	1.7	1.9	8.1	8.7	4.6	2.0	1.9
3	1.1	1.7	1.6	2.0	1.6	1.8	1.7	9.6	7.3	4.7	1.9	1.8
4	1.3	1.8	1.6	2.1	1.5	2.5	1.6	12	7.5	4.2	1.9	1.8
5	1.3	1.8	1.6	2.1	1.5	2.1	2.3	11	6.8	3.7	1.9	1.9
6	1.3	1.7	1.7	2.1	1.6	1.9	2.3	13	6.5	3.4	1.9	2.2
7	1.3	1.7	1.7	2.1	1.6	1.8	1.7	12	7.1	3.3	1.9	2.2
8	1.6	1.7	1.8	2.3	1.6	1.8	1.7	11	7.7	3.2	1.9	2.3
9	1.5	1.7	1.8	3.1	1.6	1.7	1.8	11	8.1	3.0	1.9	2.4
10	1.3	1.6	1.7	5.5	1.6	1.7	2.1	8.4	8.1	2.9	1.8	2.1
11	1.3	1.6	1.5	9.0	1.7	1.6	2.2	6.9	7.9	2.7	1.8	2.0
12	1.3	1.6	1.3	14	1.6	1.6	2.1	5.9	7.5	2.7	1.8	2.1
13	1.3	1.6	1.2	15	1.5	1.7	2.7	5.9	6.9	2.8	1.8	2.0
14	1.3	1.6	1.2	11	1.6	1.7	4.0	7.1	6.3	2.8	1.7	1.9
15	1.5	1.6	1.3	7.0	1.9	1.6	4.4	9.0	6.5	2.7	1.7	2.0
16	1.6	1.7	1.3	4.9	1.8	1.7	5.4	11	6.5	2.6	1.8	2.0
17	1.5	1.7	1.2	3.7	2.1	1.6	6.4	11	6.6	2.6	1.8	2.0
18	1.4	1.7	1.3	3.0	7.6	1.8	7.6	11	6.5	2.4	1.8	2.0
19	2.2	1.6	1.3	2.5	9.8	1.7	9.0	12	6.3	2.3	2.0	1.7
20	2.7	1.5	1.4	2.2	2.8	1.7	8.3	12	5.9	2.4	1.9	1.7
21	2.3	1.5	1.6	2.0	38	2.1	6.0	13	5.7	2.4	1.9	1.2
22	2.0	1.7	1.5	1.9	24	1.8	4.2	12	5.6	2.5	1.8	1.3
23	1.8	2.0	1.5	1.8	2.5	1.7	3.1	11	5.2	2.4	1.9	1.4
24	1.8	1.9	1.4	1.8	1.8	1.6	3.6	8.7	5.1	2.2	1.9	3.1
25	2.2	1.9	1.3	1.8	1.8	1.7	5.1	7.2	4.9	2.0	1.9	2.9
26	2.3	1.8	1.3	1.8	1.8	1.6	6.0	6.8	4.5	2.0	1.9	2.1
27	2.0	1.7	1.4	1.7	1.8	1.6	6.5	6.7	4.2	2.1	1.9	1.9
28	1.8	1.6	1.4	1.6	2.3	1.5	6.3	6.7	4.3	2.1	1.8	1.8
29	1.7	1.5	1.5	1.6	2.0	1.5	6.1	7.3	4.2	2.3	1.8	1.8
30	1.6	1.5	1.8	1.6	---	1.7	6.5	8.2	4.2	2.3	1.8	2.2
31	1.7	---	3.0	1.6	---	1.7	---	8.7	---	2.2	1.8	---
TOTAL	50.2	50.4	47.3	118.1	124.2	53.9	124.4	291.1	191.0	87.8	57.7	59.6
MEAN	1.62	1.68	1.53	3.81	4.28	1.74	4.15	9.39	6.37	2.83	1.86	1.99
MAX	2.7	2.0	3.0	15	38	2.5	9.0	13	8.7	4.7	2.1	3.1
MIN	1.1	1.5	1.2	1.6	1.5	1.5	1.6	5.9	4.2	2.0	1.7	1.2
AC-FT	100	100	94	234	246	107	247	577	379	174	114	118

CAL YR 1979 TOTAL 779.57 MEAN 2.14 MAX 10 MIN .49 AC-FT 1550
WTR YR 1980 TOTAL 1255.70 MEAN 3.43 MAX 38 MIN 1.1 AC-FT 2490

10348700 WASHOE LAKE NEAR CARSON CITY, NV

LOCATION.--Lat 39°16'30", long 119°47'35", in S½SE¼ sec.1, T.16 N., R.19 E., Washoe County, Hydrologic Unit 16050102, on Washoe County boatdock on northeast shore about 6.8 mi (10.9 km) north of Carson City.

DRAINAGE AREA.--83.8 mi^2 (217 km^2), including Little Washoe Lake.

PERIOD OF RECORD.--April 1963 to current year.

GAGE.--Reference mark. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Lake is formed by a natural basin whose natural rim falls below the control works on Little Washoe Lake allowing storage regulation. Total capacity 49,200 acre-ft (60.7 hm^2) between elevations 5,017.5 ft (1,529.33 m) and 5,031.0 ft (1,533.45 m). Figures given herein represent total contents including Scripps Wildlife Management Area Marsh. Two transarea diversions enter the lakes, one from Galena Creek and one from Third Creek into Ophir Creek. Franktown Creek is diverted into the Virginia City-Carson City pipeline and during dry years additional water is pumped from Marlette Lake into Hobart Reservoir and released into Franktown Creek for diversion into the Virginia City-Carson City pipeline at Red House. Monthly measurements of specific conductance and water temperature are listed in section titled "supplemental Water-Quality Data for Gaging Stations."

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 5,030.6 ft (1,533.33 m) Feb. 12, 24, 1978; minimum observed, 5,021.8 ft (1,530.64 m) Dec. 5, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 5,027.6 ft (1,532.41 m) June 25; minimum observed, 5,022.1 ft (1,530.74 m) Dec. 12.

MONTHEND ELEVATIONS AND TOTAL CONTENTS, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sep. 30	5,023.5	11,590	--
Oct. 31	5,022.6	8,800	-2,790
Nov. 30	5,022.1	7,300	-1,500
Dec. 31	5,023.4	11,250	+3,950
CAL YR 1979	--	--	+1,850
Jan. 31	5,025.0	17,300	+6,050
Feb. 29	5,026.2	22,660	+5,360
Mar. 31	5,026.7	25,100	+2,440
Apr. 30	5,027.0	26,600	+1,500
May 31	5,027.4	28,760	+2,160
June 30	5,027.5	29,300	+540
July 31	5,026.8	25,600	-3,700
Aug. 31	5,026.1	22,180	-3,420
Sep. 30	5,025.8	20,750	-1,430
WTR YR 1979-80	--	--	+9,160

NOTE.--Monthend elevations are interpolated from readings made during the month.

BEST DOCUMENT AVAILABLE

10348800 LITTLE WASHOE LAKE NEAR STEAMBOAT, NV

LOCATION.--Lat 39°19'45", long 119°48'00", in NE¼NW¼ sec. 24, T.17 N., R.19 E., Washoe County, Hydrologic Unit 16050102, at outlet (head of Steamboat Creek) and 5.5 mi (8.8 km) southwest of Steamboat.

DRAINAGE AREA.--83.8 mi^2 (217 km^2).

PERIOD OF RECORD.--April 1963 to September 1970 (monthly observations only), October 1970 to current year.

GAGE.--Water-stage recorder. Prior to Oct. 1, 1970, nonrecording gage at same site and datum. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Lake is formed by a natural basin supplemented by a control works downstream from the natural rim which provides storage regulation for both Little Washoe Lake and Washoe Lake. See additional remarks under "Washoe Lake." Strong steady winds often cause pileup on the side of the lake where the recorder is located. Observations during periods of no record are instanteous gage heights, rather than 2400 hrs. Most periods of no record either prior or after record of low gage heights are a result of the lake being dry. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 5,030.6 ft (1,533.33 m) Feb. 12, 24, 1970; no contents Sept. 13 to Dec. 3, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum elevation recorded, 5,027.6 ft (1,532.41 m) June 3; minimum observed, 5021.8 (1,530.64 m), Dec. 12.

Capacity table (elevation, in feet, and volume, in acre-feet)

5,021.1	0	5,025	200
5,022	10	5,026	300
5,023	50	5,027	400
5,024	125	5,028	500

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		---	---	6.66	6.62	6.65	6.67	7.13	7.50	7.31	6.83	6.15
2		---	---	6.80	6.60	6.66	6.73	7.17	7.47	7.31	6.80	6.10
3		---	---	6.90	6.60	6.67	6.79	7.23	7.60	7.34	6.77	6.08
4		---	---	7.01	6.60	6.68	6.88	7.28	7.56	7.36	6.75	6.06
5		---	---	7.10	6.59	6.69	6.90	7.35	7.50	7.35	6.71	6.05
6		---	---	7.18	6.54	6.70	6.91	7.36	7.49	7.31	6.70	6.04
7		---	---	7.26	6.54	6.69	6.93	7.31	7.49	7.29	6.67	6.02
8		---	---	7.34	6.55	6.66	6.93	7.44	7.47	7.29	6.64	6.03
9		---	---	7.46	6.55	6.66	6.94	7.44	7.51	7.29	6.63	6.02
10		---	---	7.54	6.56	6.67	6.95	7.40	7.52	7.23	6.61	6.01
11		---	---	7.58	6.57	6.70	6.96	7.33	7.52	7.21	6.58	6.00
12		---	1.79	7.54	6.57	6.73	6.97	7.25	7.49	7.18	6.55	5.98
13		1.93	---	7.46	6.57	6.75	6.97	7.31	7.46	7.14	6.52	5.95
14		---	---	7.19	6.58	6.78	6.97	7.29	7.44	7.14	6.49	5.94
15		---	---	7.09	6.58	6.81	6.96	7.36	7.41	7.13	6.47	5.93
16		---	---	7.05	6.58	6.84	6.97	7.31	7.43	7.12	6.46	5.92
17		---	---	6.89	6.59	6.84	7.04	7.34	7.42	7.11	6.43	5.92
18		---	---	6.76	6.59	6.82	7.07	7.37	7.42	7.09	6.42	5.87
19		---	---	6.81	6.60	6.79	7.15	7.39	7.41	7.05	6.40	5.86
20		---	---	6.79	6.60	6.77	7.14	7.40	7.40	7.04	6.38	5.84
21		---	---	6.76	6.61	6.74	7.09	7.44	7.41	7.04	6.36	5.84
22		---	---	6.72	6.61	6.72	7.03	7.46	7.45	7.04	6.35	5.82
23		---	---	6.70	6.61	6.70	7.01	7.48	7.39	6.97	6.34	5.81
24		---	---	6.69	6.62	6.67	6.99	7.49	7.38	6.94	6.32	5.80
25		---	5.55	6.68	6.62	6.65	7.06	7.48	7.39	6.93	6.30	5.80
26		---	5.69	6.73	6.63	6.66	7.08	7.45	7.36	6.91	6.27	5.77
27		---	5.81	6.69	6.64	6.64	7.12	7.44	7.28	6.85	6.24	5.76
28		---	5.91	6.67	6.64	6.66	7.12	7.44	7.29	6.86	6.23	5.74
29		---	6.01	6.67	6.65	6.64	7.05	7.41	7.30	6.87	6.21	5.74
30		---	6.16	6.65	---	6.70	7.08	7.39	7.34	6.86	6.19	5.73
31		---	6.48	6.64	---	6.71	---	7.43	---	6.85	6.17	---
MAX		---	---	7.58	6.65	6.84	7.15	7.49	7.60	7.36	6.83	6.15
MIN		---	---	6.64	6.54	6.64	6.67	7.13	7.28	6.85	6.17	5.73

CAL YR 1979 MAX 5027.23 MIN 5021.79
WTR YR 1980 MAX 5027.63 MIN 5021.79

NOTE.--Add 5020 ft to obtain elevation in feet NGVD at 2400 hrs.

10348900 GALENA CREEK NEAR STEAMBOAT, NV

LOCATION.--Lat 39°21'45", long 119°49'30", in SW¼SW¼ sec.2, T.17 N., R.19 E., Washoe County, Hydrologic Unit 16050102, on right bank 1 mi (2 km) upstream from Jones Creek, 3.5 mi (5.6 km) upstream from mouth, 4.5 mi (7.2 km) west-southwest of Steamboat, and 12 mi (19 km) south of Reno.

DRAINAGE AREA.--8.5 mi^2 (22.0 km^2), approximately.

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 5,592.0 ft (1,704.44 m) National Geodetic Vertical Datum of 1929, supplementary adjustment of 1956. Prior to Oct. 8, 1965, at same site at datum 3.00 ft (0.914 m) higher.

REMARKS.--Records poor. Two small diversions above station, one for irrigation and one diverts to Little Washoe Lake during winter months. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--19 years, 8.55 ft^3/s (0.242 m^3/s), 6,190 acre-ft/yr (7.63 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,670 ft^3/s (104 m^3/s) Aug. 15, 1965, gage height not determined, from slope-area measurement of peak flow; no flow for parts of many days in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 20 ft^3/s (0.57 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 13	unknown	*80	2.27	3.02	0.920
May 22	unknown	unknown		unknown	
July 2	2100	65	1.84	2.97	0.905

Minimum daily, 0.35 ft^3/s (0.010 m^3/s) Dec. 25, result of freeze up.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.7	5.3	1.5	1.2	.75	1.5	1.3	8.6	18	43	11	9.5
2	4.7	5.0	1.3	1.1	.70	1.5	1.5	13	19	49	10	8.6
3	4.7	5.3	1.1	.99	.64	1.5	1.9	15	19	32	9.5	8.6
4	4.2	5.0	.90	.99	.91	1.6	1.4	17	19	23	9.5	8.2
5	4.4	5.0	.78	.99	.91	1.6	1.6	18	18	20	9.1	9.5
6	4.4	5.0	.68	.99	.91	1.6	1.4	19	17	19	9.1	7.8
7	5.0	5.3	.65	.99	1.1	1.7	1.4	18	18	18	9.1	8.2
8	6.3	5.0	.63	.99	1.2	1.3	1.4	16	17	17	9.5	10
9	5.6	5.0	.60	.99	1.2	1.2	1.4	14	22	17	12	7.8
10	5.0	5.6	.58	1.3	1.1	1.2	1.5	12	24	16	12	7.0
11	5.0	6.3	.55	2.0	1.1	1.1	1.5	11	27	14	12	7.0
12	5.0	6.6	.53	20	.91	1.1	1.5	9.6	24	14	11	6.6
13	5.3	5.6	.56	45	.90	1.3	1.7	9.0	23	14	11	6.6
14	5.3	5.6	.60	15	.91	1.4	2.0	8.8	21	13	11	6.3
15	5.6	5.3	.70	5.0	.99	1.5	2.0	9.5	26	13	11	6.6
16	5.3	4.4	.76	4.0	.99	1.3	2.2	11	26	12	11	6.6
17	5.3	4.4	.78	3.2	2.0	.84	2.3	12	31	12	11	6.3
18	5.3	4.2	.84	2.7	4.4	.77	2.3	15	37	12	11	6.3
19	6.3	4.0	.84	2.4	3.7	.70	2.9	17	39	11	11	6.6
20	6.0	3.9	.99	2.3	2.9	.77	3.3	20	39	10	10	6.9
21	6.0	3.7	.99	2.1	2.2	.77	3.3	25	39	9.5	10	7.2
22	6.3	3.5	.84	2.0	1.4	.77	3.3	35	38	11	11	7.6
23	6.0	3.2	.80	1.8	3.5	.70	3.3	26	36	16	13	8.1
24	6.0	2.9	.50	1.6	1.9	.70	3.3	21	34	17	11	7.4
25	6.6	2.7	.35	1.4	1.4	1.1	3.3	18	38	17	9.5	7.0
26	6.3	2.5	.45	1.2	1.4	1.6	3.7	17	36	16	9.1	6.6
27	6.0	2.2	.60	1.1	1.5	1.3	5.3	15	34	13	9.1	6.6
28	6.0	2.1	.80	1.0	1.5	1.1	7.8	16	36	12	8.6	6.6
29	5.3	1.9	.99	.90	1.5	1.3	8.6	17	43	13	8.6	6.6
30	6.0	1.7	3.5	.80	---	1.3	8.6	17	43	12	9.1	6.6
31	5.3	---	3.0	.80	---	1.3	---	18	---	11	9.1	---
TOTAL	169.2	128.2	28.69	126.83	44.52	37.42	87.0	498.5	861	526.5	318.9	221.3
MEAN	5.46	4.27	.93	4.09	1.54	1.21	2.90	16.1	28.7	17.0	10.3	7.38
MAX	6.6	6.6	3.5	45	4.4	1.7	8.6	35	43	49	13	10
MIN	4.2	1.7	.35	.80	.64	.70	1.3	8.6	17	9.5	8.6	6.3
AC-FT	336	254	57	252	88	74	173	989	1710	1040	633	439

CAL YR 1979 TOTAL 2386.69 MEAN 6.54 MAX 32 MIN .35 AC-FT 4730
WTR YR 1980 TOTAL 3048.06 MEAN 8.33 MAX 49 MIN .35 AC-FT 6050

10349300 STEAMBOAT CREEK AT STEAMBOAT, NV

LOCATION.--Lat 39°22'40", long 119°44'33", in S½ sec.33, T.18 N., R.20 E., Washoe County, Hydrologic Unit 16050102, on left bank 250 ft (80 m) upstream from Steamboat ditch, 0.2 mi (0.3 km) southwest of Steamboat Post Office, and 11 mi (18 km) southeast of Reno.

DRAINAGE AREA.--123 mi^2 (319 km^2).

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 4,600 ft (1,402 m), from topographic map.

REMARKS.--Records good except for the period of no gage height record, May 13 to June 25, which are poor. Many diversions for irrigation above station. Flow partly regulated by Washoe Lake. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--19 years, 12.9 ft^3/s (0.365 m^3/s), 9,350 acre-ft/yr (11.5 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,000 ft^3/s (28.3 m^3/s) Jan. 31, 1963, gage height, 5.44 ft (1.658 m), from rating curve extended above 360 ft^3/s (10.2 m^3/s); minimum, no flow Sept. 9-15, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 528 ft^3/s (15.0 m^3/s) Jan. 13, gage height, 4.29 ft (1.308 m); minimum, 0.28 ft^3/s (0.008 m^3/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.32	6.4	6.7	8.1	6.4	9.3	5.1	3.7	24	47	10	4.7
2	.36	6.4	6.2	5.6	7.5	9.6	5.3	3.0	23	47	8.2	5.0
3	.48	7.2	6.2	5.0	6.7	9.2	4.7	4.7	22	43	7.3	4.4
4	.56	6.9	6.4	4.6	6.2	8.8	4.3	6.2	21	36	7.7	4.0
5	.60	6.9	5.9	4.5	5.9	9.8	9.1	6.7	19	32	6.1	4.2
6	.71	6.9	2.9	4.4	6.2	9.7	5.2	7.2	18	31	5.8	5.2
7	.56	6.9	2.7	4.2	6.7	9.1	4.6	7.2	18	28	6.1	3.2
8	1.1	7.2	2.2	4.0	6.5	8.3	4.4	8.7	19	23	5.0	13
9	.81	6.7	2.1	6.7	5.8	7.9	4.3	13	24	20	6.9	5.9
10	.65	6.4	1.5	7.8	6.4	8.0	4.4	22	29	20	6.2	5.3
11	1.2	6.4	1.0	12	6.2	7.9	4.3	20	35	19	6.2	6.0
12	1.4	6.4	1.1	142	6.1	7.3	4.0	16	40	20	5.3	5.9
13	1.0	6.7	1.1	288	5.8	7.5	4.2	14	36	21	4.7	5.8
14	1.1	6.7	1.6	100	6.1	7.1	4.2	13	35	21	5.3	6.2
15	1.4	6.4	2.3	29	6.9	6.9	4.3	13	40	20	5.4	6.1
16	1.7	6.9	3.6	22	7.6	6.4	4.0	15	43	17	5.7	5.0
17	1.7	6.9	4.4	19	17	6.6	3.6	17	40	17	5.0	5.0
18	1.6	7.2	3.5	18	74	7.4	3.1	20	52	15	4.2	4.9
19	3.5	5.4	3.3	12	77	6.7	2.6	22	45	15	3.8	4.5
20	5.2	5.2	3.1	9.7	27	7.1	2.7	27	37	13	3.9	4.5
21	5.0	5.4	3.3	9.4	31	7.1	2.7	32	36	9.8	4.0	4.2
22	4.7	7.8	3.0	8.7	27	7.2	3.7	47	37	6.7	4.1	4.2
23	4.7	8.4	5.2	8.1	19	5.8	3.4	40	38	8.7	5.9	5.0
24	4.1	7.8	15	7.8	15	5.3	3.0	33	40	9.4	4.9	4.6
25	5.2	7.5	6.5	7.8	13	4.9	2.9	28	41	12	5.1	3.4
26	5.9	7.2	4.5	7.2	12	5.0	3.2	24	39	15	5.0	3.7
27	6.2	6.7	3.9	6.4	11	5.0	1.8	21	37	11	5.1	3.1
28	5.4	6.7	3.6	6.7	12	4.7	3.4	20	39	8.1	4.9	3.2
29	4.3	6.9	3.9	6.7	10	4.4	3.7	21	42	7.9	5.1	3.4
30	5.9	6.9	11	6.2	---	4.2	4.3	23	46	9.5	5.3	3.4
31	6.7	---	15	5.9	---	4.2	---	24	---	10	5.1	---
TOTAL	84.05	203.4	142.7	787.5	448.0	218.4	120.5	572.4	1015	613.1	173.3	147.0
MEAN	2.71	6.78	4.60	25.4	15.4	7.05	4.02	18.5	33.8	19.8	5.59	4.90
MAX	6.7	8.4	15	288	77	9.8	9.1	47	52	47	10	13
MIN	.32	5.2	1.0	4.0	5.8	4.2	1.8	3.0	18	6.7	3.8	3.1
AC-FT	167	403	283	1560	889	433	239	1140	2010	1220	344	292

CAL YR 1979 TOTAL 1983.65 MEAN 5.43 MAX 46 MIN .25 AC-FT 3930
WTR YR 1980 TOTAL 4525.35 MEAN 12.4 MAX 288 MIN .32 AC-FT 8980

10350000 TRUCKEE RIVER AT VISTA, NV

LOCATION.--Lat 39°31'05", long 119°40'58", in NW¼NE¼ sec.13, T.19 N., R.20 E., Washoe County, Hydrologic Unit 16050102, on left bank 800 ft (250 m) downstream from Southern Pacific Railroad bridge, 0.9 mi (1.4 km) southeast of Vista, 1.5 mi (2.4 km) downstream from Steamboat Creek, and 4 mi (6 km) southeast of Sparks.

DRAINAGE AREA.--1,431 mi^2 (3,706 km^2).

PERIOD OF RECORD.--August 1899 to December 1907, January 1932 to December 1954, October 1958 to current year. Monthly discharge only for some periods, published in WSP 1314 and 1734.

REVISED RECORDS.--WSP 1634: 1904. WSP 1734: 1907 (M). WDR NV-75-1: 1963 (M). WDR NV-79-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,368.59 ft (1,331.546 m) National Geodetic Vertical Datum of 1929, supplementary adjustment of 1956. Prior to Apr. 16, 1907, nonrecording gages at several sites in vicinity of present site at various datums. May to December 1907 reference point on railroad bridge. January 1932 to December 1954, October 1958 to Aug. 17, 1959, water-stage recorder at site 1,200 ft (366 m) upstream at datum 5.59 ft (1.704 m) higher.

REMARKS.--Records good. Flow regulated by Lake Tahoe, Stampede, Boca, and Prosser Creek Reservoirs, and other lakes, combined capacity 1,070,000 acre-ft (1.32 km^3). Water-quality records for the current year are published for Truckee River at Lockwood (see next page), 2.1 mi (3.4 km) downstream. Several powerplants and many diversions above station.

AVERAGE DISCHARGE.--52 years, 786 ft^3/s (22.25 m^3/s), 569,500 acre-ft/yr (702 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge (revised), 18,900 ft^3/s (535 m^3/s) Feb. 1, 1963, gage height, 16.76 ft (5.108 m), from rating curve extended above 5,000 ft^3/s (142 m^3/s) on basis of slope-area measurement of peak flow; minimum daily, 7 ft^3/s (0.20 m^3/s) Aug. 26, 1935.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum gage height known, 17.04 ft (5.194 m), from floodmarks, December 1955, at site and datum used 1958-59, discharge about 15,000 ft^3/s (425 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,970 ft^3/s (282 m^3/s) Jan. 14, gage height, 13.10ft (3.993 m); minimum discharge 249 ft^3/s (7.05 m^3/s) Oct. 3.

REVISIONS.--The maximum discharge for water year 1977 has been revised to 806 ft^3/s (22.8 m^3/s) Feb. 21, 1977, gage height 3.46 ft (1.055 m) superseding figure published in the report for 1977.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	293	484	373	736	568	810	568	1390	2110	624	333	350
2	315	437	367	588	561	806	590	1380	2120	723	299	377
3	272	386	367	493	557	810	601	1520	2100	966	313	368
4	285	386	355	458	554	776	590	1680	2040	780	313	399
5	271	380	349	412	501	772	667	1730	2060	682	336	371
6	294	355	373	382	518	764	675	1650	1900	613	399	470
7	297	359	370	373	522	755	632	1710	1740	632	430	434
8	346	404	367	383	514	702	624	1740	1570	565	424	490
9	344	416	361	397	497	675	628	1690	1480	490	411	463
10	338	396	355	652	497	667	663	1670	1390	443	418	408
11	344	370	358	476	484	659	690	1570	1280	399	341	421
12	327	346	338	2360	484	639	698	1460	1110	405	324	368
13	358	346	361	6880	470	639	743	1570	998	424	307	371
14	399	350	370	6880	518	632	880	1630	858	424	324	365
15	423	344	364	3600	572	620	1120	1620	810	371	336	374
16	419	367	352	3200	643	605	1160	1910	840	341	321	369
17	402	370	349	3080	819	594	1250	1950	889	380	333	356
18	404	380	361	2760	2440	609	1350	1990	898	389	336	368
19	456	373	361	2020	2700	590	1440	2020	875	362	344	396
20	611	361	364	1160	1980	583	1750	2090	849	336	304	399
21	575	355	373	1000	1700	594	1760	2190	832	324	304	418
22	543	364	380	853	1490	579	1380	2340	772	302	347	437
23	539	386	370	806	1180	565	1100	2290	718	313	453	421
24	540	367	639	768	1070	550	902	2100	659	321	405	453
25	563	433	610	743	961	543	938	2130	647	313	377	494
26	670	458	408	613	849	539	1010	2030	639	310	356	457
27	691	437	410	579	858	536	1090	2080	598	327	347	427
28	677	383	382	675	943	536	1210	2040	572	324	347	408
29	672	376	371	663	862	529	1360	2030	594	371	359	393
30	599	373	450	613	---	550	1470	2070	628	414	380	437
31	523	---	652	579	---	557	---	2150	---	350	368	---
TOTAL	13790	11542	12260	45182	26312	19785	29539	57420	34576	14018	10989	12261
MEAN	445	385	395	1457	907	638	985	1852	1153	452	354	409
MAX	691	484	652	6880	2700	810	1760	2340	2120	966	453	494
MIN	271	344	338	373	470	529	568	1380	572	302	299	350
AC-FT	27350	22890	24320	89620	52190	39240	58590	113900	68580	27800	21800	24320

CAL YR 1979 TOTAL 167860 MEAN 460 MAX 2340 MIN 201 AC-FT 333000
WTR YR 1980 TOTAL 287674 MEAN 786 MAX 6880 MIN 271 AC-FT 570600

10350050 TRUCKEE RIVER AT LOCKWOOD, NV

LOCATION.--Lat 39°30'36", long 119°38'52", in SE¼SE¼ sec.17, T.19 N., R.21 E., on boundary line between Washoe and Storey Counties, Hydrologic Unit 16050102, at bridge 2.1 mi (3.4 km) downstream from stream-gaging station 10350000 (Truckee River at Vista), 2.7 mi (4.3 km) downstream from mouth of North Truckee Drain, 3.3 mi (5.3 km) downstream from mouth of Steamboat Creek, and 6 mi (10 km) southeast of Sparks.

DRAINAGE AREA.--1,433 mi^2 (3,711 km^2).

PERIOD OF RECORD.--August 1966 to December 1973, May 1974 to September 1980.
CHEMICAL ANALYSES AND WATER TEMPERATURES: August 1966 to May 1967, occasional; June 1967 to December 1973, monthly; May 1974 to September 1980, twice-monthly.
SPECIFIC CONDUCTANCES: May 1974 to September 1980, twice-monthly.
BIOLOGICAL DATA: October 1975 to September 1980, monthly.
MICROBIOLOGICAL DATA: June 1967 to December 1973 and May, June 1974, monthly; July 1974 to September 1980, twice-monthly (data prior to October 1976 are unpublished).

REMARKS.--Estimated streamflows are based on data from station 10350000, and are considered accurate for Lockwood site except during periods of low flow, when a small diversion for irrigation in Lockwood area could significantly decrease streamflow. Effluent from Reno-Sparks Joint Waste Water Treatment Plant enters Steamboat Creek several hundred feet upstream from confluence with Truckee River.

COOPERATION.--Field measurements and sample collection through November 1977 by Nevada Division of Environmental Protection. Chemical analyses for period August 1966 to December 1973, and microbiological analyses for entire period of record, by Nevada Bureau of Laboratories and Research.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 587 micromhos Oct. 11, 1977; minimum, 84 micromhos May 21, 1975.
FECAL STREPTOCOCCI: Maximum, greater than 2,000 colonies/100 mL Nov. 22, 1977; minimum, less than 2 colonies/100 mL Nov. 8, 1974, Jan. 9, 22, 1975.
WATER TEMPERATURES: Maximum, 24.0°C Aug. 8, 1979; minimum, freezing point Jan. 5, Dec. 16, 1968.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L)	COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS (MG/L AS CACO3)
OCT												
10...	1005	E330	254	7.9	13.0	1.8	7.7	23	2700	260	230	--
23...	1035	E532	196	--	10.5	3.2	--	18	K1700	K100	K120	--
NOV												
07...	1110	E355	242	8.0	6.0	1.9	10.6	15	2500	K140	K80	64
DEC												
19...	1215	E367	236	8.1	4.5	2.4	10.0	--	K100	<10	K40	--
JAN												
15...	1735	E3600	179	--	4.5	--	--	--	--	--	--	--
30...	0955	E349	224	7.8	2.0	6.2	11.7	7	K300	K50	K50	--
FEB												
28...	1115	E681	223	8.0	6.0	13	10.2	21	K1600	K80	K50	60
MAR												
13...	1030	E376	--	8.2	5.5	4.0	10.8	11	K200	K40	--	--
27...	1130	E292	238	--	7.0	4.3	--	16	<100	K10	--	--
APR												
09...	1040	E364	206	8.3	10.0	6.0	10.9	15	K600	K20	K40	--
21...	1145	E1480	110	--	7.0	15	--	9	K300	K160	K50	--
MAY												
05...	1145	E1430	104	7.8	11.5	13	9.4	17	K500	K80	K140	--
28...	1130	E1710	111	--	10.5	6.5	--	--	K140	300	220	--
JUN												
10...	1115	E1180	121	7.9	12.0	10	9.2	10	K800	K120	290	--
25...	1020	E399	176	--	15.0	2.7	--	11	K1300	260	380	--
JUL												
08...	1120	E308	214	8.0	18.0	7.6	7.9	15	K1700	350	300	--
22...	1010	E145	265	--	21.0	5.4	--	17	K1400	410	770	--
AUG												
04...	1200	E161	277	7.9	21.0	2.3	6.8	22	K9100	K710	480	--
19...	1030	E165	230	--	17.5	4.5	--	12	6400	360	420	--
SEP												
03...	1225	E186	226	8.0	18.0	4.5	7.8	23	--	--	380	--
24...	1050	E226	233	--	13.5	--	--	17	2100	260	370	--

E: ESTIMATED.
K: NON-IDEAL COLONY COUNT.

10350050 TRUCKEE RIVER AT LOCKWOOD, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	CALCIUM TOTAL (MG/L AS CA)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, TOTAL (MG/L AS MG)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, TOTAL (MG/L AS NA)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, TOTAL (MG/L AS K)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)
OCT										
10...	1005	--	--	--	--	--	--	--	--	--
23...	1035	--	--	--	--	--	--	--	--	--
NOV										
07...	1110	13	16	6.1	5.9	23	22	1.2	2.9	--
DEC										
19...	1215	--	--	--	--	--	--	--	--	--
JAN										
15...	1735	--	--	--	--	--	--	--	--	--
30...	0955	--	--	--	--	--	--	--	--	--
FEB										
28...	1115	14	15	6.2	5.4	24	20	1.1	2.7	2.8
MAR										
13...	1030	12	--	5.0	--	16	--	--	2.2	--
27...	1130	--	--	--	--	--	--	--	--	--
APR										
09...	1040	--	--	--	--	--	--	--	--	--
21...	1145	--	--	--	--	--	--	--	--	--
MAY										
05...	1145	--	--	--	--	--	--	--	--	--
28...	1130	--	--	--	--	--	--	--	--	--
JUN										
10...	1115	--	--	--	--	--	--	--	--	--
25...	1020	--	--	--	--	--	--	--	--	--
JUL										
08...	1120	--	--	--	--	--	--	--	--	--
22...	1010	--	--	--	--	--	--	--	--	--
AUG										
04...	1200	--	--	--	--	--	--	--	--	--
19...	1030	--	--	--	--	--	--	--	--	--
SEP										
03...	1225	--	--	--	--	--	--	--	--	--
24...	1050	--	--	--	--	--	--	--	--	--

DATE	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)
OCT									
10...	--	--	--	--	--	--	--	--	27
23...	--	--	--	--	--	--	--	--	10
NOV									
07...	68	19	15	.1	19	149	--	E143	14
DEC									
19...	--	--	--	--	--	--	--	--	11
JAN									
15...	51	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	161	--	E152	14
FEB									
28...	62	19	18	.1	21	130	139	--	34
MAR									
13...	--	--	--	--	--	--	--	--	6
27...	--	--	16	--	--	--	--	--	19
APR									
09...	--	--	--	--	--	128	--	E195	8
21...	--	--	--	--	--	--	--	--	45
MAY									
05...	--	--	--	--	--	74	--	E344	54
28...	--	--	--	--	--	--	--	--	18
JUN									
10...	--	--	--	--	--	104	--	E418	24
25...	--	--	--	--	--	--	--	--	21
JUL									
08...	--	--	--	--	--	145	--	E219	13
22...	--	--	--	--	--	--	--	--	--
AUG									
04...	--	--	--	--	--	184	--	E122	7
19...	--	--	--	--	--	--	--	--	9
SEP									
03...	--	--	--	--	--	--	--	--	9
24...	--	--	--	--	--	--	--	--	16

E: ESTIMATED

10350050 TRUCKEE RIVER AT LOCKWOOD, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHOPH OSPHATE TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
10...	1005	.22	.180	1.300	.40	2.1	.750	--	--	5.6
23...	1035	.13	.080	.860	.64	1.7	.470	--	--	--
NOV										
07...	1110	.27	.010	.900	.60	1.8	.580	.520	--	8.0
DEC										
19...	1215	.20	.020	.630	.37	1.2	.290	--	--	4.0
JAN										
15...	1735	.35	.020	.200	1.1	1.7	.310	.150	.190	7.1
30...	0955	.33	.020	.580	.82	1.8	.290	--	--	5.6
FEB										
28...	1115	.22	.020	.690	.61	1.5	.230	.180	--	5.6
MAR										
13...	1030	.15	.020	1.400	.40	2.0	.400	--	--	8.2
27...	1130	.08	.030	1.200	.30	1.6	.410	--	--	6.9
APR										
09...	1040	.07	.020	.850	.65	1.6	.380	--	--	4.1
21...	1145	.09	.010	.360	.74	1.2	.210	--	--	5.0
MAY										
05...	1145	.10	.000	.400	1.3	1.8	.150	--	--	4.2
28...	1130	.13	.020	.200	.62	.97	.140	--	--	5.3
JUN										
10...	1115	.06	.000	.070	1.1	1.3	.080	--	--	6.2
25...	1020	.14	.020	.550	.75	1.5	.260	--	--	3.2
JUL										
08...	1120	.15	.050	.590	.81	1.6	.350	--	--	6.3
22...	1010	.27	.050	1.100	.60	2.0	.860	--	.700	6.4
AUG										
04...	1200	.37	.120	1.800	.60	2.9	1.100	--	.930	6.9
19...	1030	.24	.060	.890	.41	1.6	.520	--	.460	5.2
SEP										
03...	1225	.23	.060	.630	.67	1.6	.440	--	.390	7.1
24...	1050	.15	.020	.580	.62	1.4	.420	--	.370	7.0

10350050 TRUCKEE RIVER AT LOCKWOOD, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	BARIUM, TOTAL (UG/L AS BA)	CADMIUM TOTAL (UG/L AS CD)	CHRO-MIUM, TOTAL (UG/L AS CR)	COPPER, TOTAL (UG/L AS CU)	IRON, TOTAL (UG/L AS FE)
OCT							
23...	1035	--	--	--	--	--	510
NOV							
07...	1110	3	80	2	0	2	380
DEC							
19...	1215	13	--	0	16	6	250
JAN							
30...	0955	15	--	0	0	27	460
FEB							
28...	1115	13	200	0	0	11	1000
MAR							
13...	1030	11	100	--	--	--	--
APR							
09...	1040	7	0	0	0	7	410
21...	1145	--	--	--	--	--	1700
MAY							
05...	1145	5	200	0	0	10	2000
28...	1130	--	--	--	--	--	2600
JUN							
10...	1115	10	0	1	0	60	700
25...	1020	--	--	--	--	--	2200
JUL							
08...	1120	--	0	0	0	0	680
22...	1010	--	--	--	--	--	690
AUG							
04...	1200	17	100	0	10	8	630
19...	1030	--	--	--	--	--	520
SEP							
03...	1225	12	100	1	0	7	480
24...	1050	--	--	--	--	--	500

DATE	LEAD, TOTAL (UG/L AS PB)	MANGA-NESE, TOTAL (UG/L AS MN)	MERCURY TOTAL (UG/L AS HG)	SELE-NIUM, TOTAL (UG/L AS SE)	SILVER, TOTAL (UG/L AS AG)	ZINC, TOTAL (UG/L AS ZN)
OCT						
23...	--	--	--	--	--	--
NOV						
07...	2	30	.2	0	0	60
DEC						
19...	3	70	.0	0	--	10
JAN						
30...	7	30	.1	0	--	40
FEB						
28...	11	60	.1	0	0	50
MAR						
13...	13	--	.0	--	0	--
APR						
09...	2	30	.1	0	0	10
21...	--	--	--	--	--	--
MAY						
05...	4	100	.1	0	0	30
28...	--	--	--	--	--	--
JUN						
10...	24	50	.1	0	0	30
25...	--	--	--	--	--	--
JUL						
08...	0	60	.2	0	0	20
22...	--	--	--	--	--	--
AUG						
04...	4	70	.1	0	0	20
19...	--	--	--	--	--	--
SEP						
03...	4	60	--	0	0	20
24...	--	--	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	PCB TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR-DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DI-AZINON, TOTAL (UG/L)	DI-ELDRIN TOTAL (UG/L)	ENDO-SULFAN, TOTAL (UG/L)
NOV 07...	1110	ND	ND	ND	ND	ND	ND	ND	ND	--
FEB 28...	1115	--	--	--	--	--	--	--	--	--
SEP 24...	1050	.00	.00	.0	.00	.00	.00	.00	.00	.00

DATE	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA-CHLOR, TOTAL (UG/L)	HEPTA-CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA-THION, TOTAL (UG/L)	METH-OXY-CHLOR, TOTAL (UG/L)	METHYL PARA-THION, TOTAL (UG/L)	METHYL TRI-THION, TOTAL (UG/L)
NOV 07...	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB 28...	--	--	--	--	--	--	--	--	--
SEP 24...	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	NAPH-THA-LENES, POLY-CHLOR. TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA-THION, TOTAL (UG/L)	PER-THANE TOTAL (UG/L)	TOX-APHENE, TOTAL (UG/L)	TOTAL TRI-THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
NOV 07...	--	--	ND	--	ND	ND	ND	ND	ND
FEB 28...	--	--	--	--	--	--	.03	.00	.00
SEP 24...	.00	.00	.00	.00	.00	.00	.00	.00	.00

ND: NONE DETECTED.

DATE	TIME	CHLOR-A PHYTO-PLANK-TON CHROMO-FLUOROM (UG/L)	CHLOR-B PHYTO-PLANK-TON CHROMO-FLUOROM (UG/L)
OCT 10...	1005	.740	.106
NOV 07...	1110	.744	<.112
DEC 19...	1215	.898	.453
JAN 30...	0955	.183	<.094
FEB 28...	1115	.803	.119
MAY 05...	1145	4.14	.715
AUG 07...	1200	1.25	.103

BEST DOCUMENT AVAILABLE

10350390 TRUCKEE RIVER ABOVE TRACY, NV

LOCATION.--Lat 39°33'53", long 119°31'15", in NE¼NW¼ sec.33, T.20 N., R.22 E., Storey County, Hydrologic Unit 16050102, on right bank about 1,200 ft (370 m) upstream from Tracy powerplant, about 200 ft (60 m) upstream from cooling pond outlet, and 13 mi (21 km) east of Sparks.

DRAINAGE AREA.--1,590 mi^2 (4,120 km^2), approximately.

PERIOD OF RECORD.--April 1972 to current year.
WATER TEMPERATURES: April 1972 to July 1972, monthly; August 1972 to February 1977, continuous; March 1977 to July 1978, four times per hour; August 1978 to current year, twice per hour.

INSTRUMENTATION.--Temperature recorder since August 1972.

REMARKS.--Temperature recorder malfunctioned from Nov. 11-25.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
WATER TEMPERATURES: Maximum, 28.0°C June 24, 1977; minimum, freezing point on several days during winter months of some years.

EXTREMES FOR CURRENT YEAR (MEASUREMENTS AT LEAST ONCE-DAILY).--
WATER TEMPERATURES: Maximum, 27.0°C July 27; minimum, 0.5°C Dec. 13.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	19.5	15.5	9.5	7.5	5.5	3.5	5.5	4.5	3.5	2.0	7.0	5.5
2	19.5	16.0	8.5	7.5	7.0	4.5	4.5	4.0	5.5	3.5	7.0	6.0
3	19.0	15.5	8.5	7.5	7.0	6.0	4.5	3.5	6.5	5.0	7.0	6.5
4	19.0	15.5	9.0	7.0	6.5	5.5	5.0	4.0	8.5	6.5	8.0	6.5
5	19.5	15.5	8.5	7.0	7.0	5.0	5.0	4.0	8.5	7.0	7.5	6.0
6	19.5	15.5	9.0	6.5	6.5	5.0	6.5	5.0	9.0	7.0	6.0	5.5
7	19.0	16.0	8.5	6.5	6.5	4.0	7.0	5.0	7.0	5.0	7.0	5.0
8	18.0	15.5	8.5	6.5	6.5	4.5	7.0	5.0	6.5	4.0	9.0	6.0
9	17.0	15.0	8.5	6.5	7.0	4.5	6.5	5.5	6.5	4.0	9.0	6.0
10	16.5	14.0	8.0	6.0	7.0	5.0	6.5	3.5	6.5	4.5	9.5	6.5
11	16.5	14.0	---	---	5.0	2.0	4.5	2.5	6.5	4.0	7.5	6.5
12	17.0	14.0	---	---	2.5	1.0	7.0	4.5	7.5	5.0	7.5	5.0
13	16.5	14.5	---	---	2.5	.5	5.5	4.0	7.5	5.5	8.5	5.5
14	15.5	14.0	---	---	3.5	1.5	5.0	3.0	7.0	6.0	9.5	5.5
15	14.0	13.5	---	---	4.0	2.0	5.5	5.0	8.0	6.5	8.5	5.5
16	15.5	13.0	---	---	4.0	2.0	5.0	4.0	7.5	6.0	8.5	5.5
17	15.5	13.5	---	---	4.0	2.0	5.0	4.5	7.0	5.5	9.0	5.5
18	14.0	12.0	---	---	3.5	2.0	4.5	2.5	7.0	5.5	7.5	6.0
19	13.0	11.5	---	---	5.0	3.0	---	2.0	5.5	4.5	9.5	5.5
20	11.5	10.5	---	---	4.0	3.5	3.5	2.0	5.0	3.5	9.0	7.5
21	11.0	9.0	---	---	4.5	3.5	4.0	2.0	5.0	3.5	7.5	6.5
22	11.0	9.0	---	---	4.0	2.5	4.0	2.5	5.0	2.5	9.0	5.5
23	12.5	10.5	---	---	3.0	2.0	4.0	2.5	6.5	4.0	10.0	7.0
24	13.0	11.0	---	---	4.5	2.5	4.5	3.0	6.5	5.5	9.0	7.0
25	12.0	10.5	---	---	4.0	2.0	5.0	3.5	7.0	5.5	8.5	6.5
26	11.0	9.5	7.5	5.0	3.5	2.0	5.0	3.5	8.0	6.0	9.0	5.5
27	11.0	9.5	5.0	3.5	3.5	2.0	4.0	2.0	9.0	7.0	10.0	7.0
28	10.0	9.5	5.0	3.5	2.5	2.0	3.5	2.0	8.0	6.5	10.5	7.0
29	9.5	8.5	5.0	3.0	3.5	2.0	3.0	2.0	7.5	6.0	11.5	7.5
30	8.5	7.5	5.0	3.5	4.0	2.5	2.5	1.5	---	---	11.5	9.0
31	9.0	7.0	---	---	5.0	3.5	2.5	2.0	---	---	9.5	7.5
MONTH	19.5	7.0	9.5	3.0	7.0	.5	7.0	1.5	9.0	2.0	11.5	5.0

10350390 TRUCKEE RIVER ABOVE TRACY, NV--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.0	6.5	12.5	9.5	12.5	10.5	20.5	17.0	26.5	21.5	22.0	17.0
2	9.5	7.0	14.0	10.5	12.5	10.5	19.0	15.5	25.5	20.5	22.5	18.0
3	9.0	7.0	13.0	11.0	12.0	9.5	17.0	13.5	25.0	19.5	22.0	17.5
4	10.0	8.5	13.0	10.5	12.0	10.0	18.5	15.5	25.0	20.0	22.5	18.0
5	10.0	8.5	12.5	11.0	12.0	9.5	19.0	16.0	24.5	20.0	23.0	18.5
6	10.0	7.5	13.0	10.0	12.5	10.0	20.0	16.5	23.5	19.0	21.5	19.0
7	10.0	7.5	12.5	10.5	14.0	11.5	20.5	17.0	23.0	18.5	20.5	18.0
8	11.5	8.0	12.0	10.5	15.5	13.0	18.5	17.5	23.5	19.5	20.0	17.5
9	12.5	9.5	11.0	9.5	15.5	13.0	21.0	16.5	23.5	19.0	20.5	17.0
10	13.0	9.5	10.0	8.0	15.5	13.0	21.5	17.0	24.0	19.0	20.0	17.5
11	12.0	9.0	9.5	8.5	15.0	12.5	23.0	18.0	24.5	19.5	21.0	17.0
12	12.5	8.5	11.0	8.0	14.5	12.5	22.5	18.5	24.5	20.0	21.5	18.0
13	13.0	9.5	11.0	9.5	14.0	12.5	23.0	18.0	24.5	19.0	18.5	15.5
14	13.0	10.5	12.0	10.5	15.5	12.0	23.0	18.0	22.5	18.0	17.0	13.5
15	12.0	10.0	13.5	11.0	17.0	14.0	24.0	18.0	23.0	17.5	18.0	14.5
16	12.0	9.5	13.5	11.5	18.0	15.0	25.0	20.0	24.0	18.5	20.0	15.0
17	12.5	10.0	13.5	11.0	18.5	16.0	25.5	20.5	24.5	19.5	20.5	16.5
18	12.5	10.5	14.0	11.5	19.0	15.5	24.5	20.5	22.0	19.0	19.0	16.5
19	12.5	10.0	14.5	12.0	18.0	15.5	24.5	19.0	23.0	17.5	19.0	15.0
20	11.0	10.0	14.0	12.5	18.0	14.5	25.5	20.0	24.0	17.5	18.5	15.0
21	10.0	7.5	14.0	12.5	18.0	15.5	26.5	21.0	24.5	19.0	17.5	14.0
22	9.0	7.5	13.5	12.0	17.5	15.0	26.5	21.0	22.5	19.0	17.5	14.0
23	10.5	8.0	12.5	9.5	17.0	14.5	26.5	21.0	22.0	18.0	17.5	14.0
24	13.0	9.5	10.5	8.0	18.0	15.0	25.5	21.0	22.5	18.0	18.0	14.5
25	13.5	11.0	10.0	8.5	18.5	15.5	26.0	20.5	23.5	19.0	17.5	15.0
26	14.0	11.5	11.5	9.0	18.5	15.5	26.5	21.0	23.5	19.0	18.5	15.5
27	14.5	11.5	12.0	10.5	19.0	15.5	27.0	21.0	22.5	18.0	18.5	15.0
28	13.0	12.0	12.5	10.5	21.0	16.5	24.5	22.0	21.0	17.0	19.0	15.5
29	13.5	10.5	13.0	11.0	21.0	18.5	25.0	20.5	18.5	16.0	18.0	15.0
30	12.0	9.5	12.5	11.5	19.0	17.5	24.5	21.0	19.0	15.0	19.0	14.5
31	---	---	12.5	10.5	---	---	26.0	21.5	21.0	16.5	---	---
MONTH	14.5	6.5	14.5	8.0	21.0	9.5	27.0	13.5	26.5	15.0	23.0	13.5
YEAR	27.0	.5										

BEST DOCUMENT AVAILABLE

10350400 TRUCKEE RIVER BELOW TRACY, NV

LOCATION.--Lat 39°33'52", long 119°31'02", in NW¼NE¼ sec.33, T.20 N., R.22 E., Washoe County, Hydrologic Unit 16050102, on left bank on upstream side of bridge, 200 ft (60 m) downstream from Tracy powerplant, and 13 mi (21 km) east of Sparks.

DRAINAGE AREA.--1,590 mi^2 (4,120 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1972 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,238.15 ft (1,291.788 m) National Geodetic Vertical Datum of 1929 (levels by S.E.&A. Engineers).

REMARKS.--Records good. Flow regulated by Lake Tahoe, Prosser Creek, Stampede and Boca Reservoirs and other lakes, powerplants, and many diversions for irrigation.

AVERAGE DISCHARGE.--8 years, 674 ft^3/s (19.09 m^3/s), 488,300 acre-ft/yr (602 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,200 ft^3/s (289 m^3/s) Jan. 14, 1980, gage height, 11.11 ft (3.386 m); minimum, 22 ft^3/s (0.623) Oct. 24, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,200 ft^3/s (289 m^3/s) Jan. 14, gage height, 11.11 ft (3,386 m); minimum, 242 ft^3/s (6.85 m^3/s) July 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	299	477	342	724	592	824	551	1360	2100	587	313	338
2	322	437	334	577	582	818	571	1380	2050	641	286	360
3	299	390	346	483	582	824	582	1530	2050	928	289	368
4	303	390	338	443	576	791	576	1730	2010	747	286	387
5	292	381	334	414	526	779	619	1800	2020	658	299	360
6	303	363	342	380	526	766	658	1690	1880	582	331	451
7	310	355	351	375	530	754	614	1720	1690	603	408	408
8	346	399	342	373	526	705	597	1810	1520	536	388	451
9	359	394	338	360	516	675	603	1700	1440	497	380	438
10	342	390	338	641	501	658	630	1700	1340	433	384	388
11	346	372	334	487	497	647	647	1600	1220	396	331	388
12	346	342	320	2470	492	636	658	1450	1060	376	330	360
13	355	338	329	5370	483	625	699	1540	957	400	279	345
14	381	346	339	5830	506	625	805	1650	831	408	289	349
15	408	334	335	4120	566	614	971	1630	773	356	296	338
16	408	342	324	3730	630	597	1010	1940	792	327	289	345
17	413	351	317	3260	723	582	1200	2020	838	342	289	331
18	390	368	326	3150	2160	603	1300	2050	844	364	309	338
19	427	351	323	2510	2800	592	1420	2100	824	345	292	360
20	549	334	330	1420	2160	582	1700	2160	805	316	279	364
21	566	334	329	1130	1680	587	1620	2260	792	313	283	364
22	520	338	345	949	1560	582	1240	2420	741	296	338	384
23	509	359	329	858	1230	561	1090	2340	693	289	384	376
24	509	359	540	824	1090	551	844	2080	630	316	364	388
25	520	359	618	798	993	541	878	2100	608	292	342	425
26	603	432	421	670	865	531	957	1960	608	292	327	412
27	634	408	400	608	851	521	1030	1980	566	299	327	388
28	628	363	378	670	935	526	1150	1960	546	296	323	372
29	615	351	366	699	872	516	1320	1950	561	323	338	360
30	566	342	402	647	---	531	1460	2010	587	372	353	380
31	515	---	574	603	---	541	---	2110	---	331	349	---
TOTAL	13383	11099	11384	45573	26550	19685	28000	57730	33376	13261	10075	11316
MEAN	432	370	367	1470	916	635	933	1862	1113	428	325	377
MAX	634	477	618	5830	2800	824	1700	2420	2100	928	408	451
MIN	292	334	317	360	483	516	551	1360	546	289	279	331
AC-FT	26550	22010	22580	90390	52660	39050	55540	114500	66200	26300	19980	22450

CAL YR 1979 TOTAL 165695 MEAN 454 MAX 2080 MIN 171 AC-FT 328700
WTR YR 1980 TOTAL 281432 MEAN 769 MAX 5830 MIN 279 AC-FT 558200

10350400 TRUCKEE RIVER BELOW TRACY, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1972 to current year.
WATER TEMPERATURES: April to September 1972, monthly; October 1972 to September 1975, continuous; October 1975 to March 1976, monthly; April 1976 to March 1977, continuous; April 1977 to February 1980, four times per hour; March to September 1980, twice per hour.

INSTRUMENTATION.--Temperature recorder since October 1972.

REMARKS.--Temperature recorder malfunctioned Feb. 25 to March 3.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
WATER TEMPERATURES: Maximum, 33.5°C June 24, 28, 1977; minimum, freezing point on several days in January 1973, January 1974, December 1978, and January 1979.

EXTREMES FOR CURRENT YEAR (MEASUREMENTS AT LEAST ONCE-DAILY).--
WATER TEMPERATURES: Maximum, 27.0°C July 27; minimum, 0.5°C Dec. 13.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	19.0	15.5	9.5	7.5	5.5	3.5	5.5	4.0	2.5	1.5	---	---
2	19.5	15.5	8.5	7.5	7.0	4.5	4.5	3.5	4.5	2.5	---	---
3	19.0	15.5	9.0	7.5	7.5	6.0	4.5	3.5	6.0	4.5	---	---
4	19.0	15.0	9.5	7.5	6.5	5.5	4.5	4.0	8.0	5.5	7.5	7.0
5	19.5	15.0	9.0	7.0	7.0	5.0	5.0	3.5	7.5	6.5	7.5	5.5
6	19.5	15.5	9.5	7.0	6.5	4.5	6.5	4.5	8.0	6.0	6.0	5.0
7	18.5	15.5	9.0	7.0	6.0	4.0	7.0	5.0	6.0	4.5	7.0	4.5
8	18.0	15.0	9.0	7.0	6.5	4.5	7.0	5.0	5.5	3.5	9.0	6.0
9	17.0	14.5	9.0	7.5	7.0	4.5	6.5	5.5	---	---	9.0	6.0
10	16.5	13.5	8.5	7.0	7.0	4.5	6.5	3.0	6.0	4.0	9.5	6.5
11	16.5	13.5	8.0	6.0	4.5	2.0	4.5	2.5	6.5	4.0	7.5	6.5
12	16.5	13.5	7.5	5.5	2.0	1.0	7.0	4.5	7.0	5.0	7.5	5.0
13	16.5	14.5	7.5	5.5	2.5	.5	4.5	4.0	7.0	5.0	8.5	5.5
14	15.5	13.5	7.5	5.5	3.0	1.0	5.0	3.0	6.5	5.5	9.5	5.5
15	14.0	13.5	7.5	5.5	4.0	1.5	5.0	4.0	8.0	6.0	8.5	5.5
16	15.5	13.0	7.5	6.0	4.0	2.0	5.0	4.0	7.0	5.5	8.5	5.5
17	15.5	13.5	8.5	7.0	3.5	2.0	4.5	4.0	6.5	5.0	9.0	5.5
18	14.0	12.0	7.5	5.5	3.5	1.5	4.5	2.5	6.5	4.5	7.5	6.0
19	13.0	11.0	6.5	4.5	5.0	2.5	4.0	2.5	4.5	4.0	9.5	5.5
20	12.0	10.5	5.0	3.0	4.0	3.5	4.0	2.5	5.0	3.0	9.0	7.5
21	11.0	9.0	4.0	2.5	4.0	3.5	4.0	2.5	5.0	3.5	7.5	6.5
22	11.5	9.0	3.5	2.5	4.0	2.0	4.0	2.5	5.0	2.5	9.0	5.5
23	12.5	10.5	6.0	3.5	3.0	2.0	4.0	2.5	6.0	4.0	10.0	7.0
24	13.0	11.0	9.0	6.0	4.5	2.5	4.5	2.5	6.0	5.0	9.0	7.0
25	12.0	10.0	9.0	7.5	4.0	2.0	5.0	3.5	---	---	8.5	6.5
26	11.0	9.5	7.5	7.0	3.5	2.0	5.0	3.0	---	---	9.0	5.5
27	11.0	9.5	5.0	3.5	3.0	2.0	---	---	---	---	10.0	7.0
28	10.0	9.5	4.5	3.0	2.0	1.5	---	---	---	---	10.5	7.5
29	9.5	8.5	5.0	3.0	3.5	2.0	2.5	1.5	---	---	11.5	7.5
30	8.5	7.5	5.5	3.5	3.5	2.0	2.0	1.0	---	---	11.5	9.0
31	9.0	7.0	---	---	5.0	3.0	---	1.5	---	---	9.5	7.5
MONTH	19.5	7.0	9.5	2.5	7.5	.5	7.0	1.0	8.0	1.5	11.5	4.5

10350400 TRUCKEE RIVER BELOW TRACY, NV--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.0	6.5	12.5	9.5	12.5	10.5	20.5	17.5	26.5	21.5	21.5	17.0
2	9.5	7.0	13.5	10.5	12.0	10.0	19.0	16.0	25.5	20.5	22.0	17.5
3	9.0	7.0	13.0	11.0	12.0	9.0	17.0	13.5	25.0	19.5	21.5	17.5
4	10.0	8.5	13.0	10.0	12.0	9.5	18.5	15.5	25.0	21.5	22.0	17.5
5	10.0	8.5	12.5	10.5	12.0	9.5	19.0	16.0	24.5	20.0	22.5	18.0
6	10.0	8.0	12.5	9.5	12.5	10.0	20.0	16.5	23.5	19.0	21.0	18.5
7	10.0	7.5	12.5	10.0	14.0	11.5	20.5	17.0	23.0	18.5	20.5	17.5
8	11.5	8.0	12.0	10.5	15.0	12.5	21.0	17.5	23.5	19.5	20.0	17.5
9	12.5	9.5	11.0	9.0	15.0	12.5	21.0	17.0	23.5	19.0	20.5	17.0
10	12.5	9.5	9.5	7.5	15.5	13.0	21.5	17.0	24.0	19.0	19.5	17.5
11	12.0	9.0	9.0	8.0	15.0	12.5	22.5	18.0	24.5	19.5	21.0	17.0
12	12.0	8.5	11.0	7.5	14.5	12.5	22.5	18.5	24.5	20.0	21.0	17.5
13	13.0	9.5	11.0	9.5	14.0	12.5	23.0	18.0	24.0	19.0	18.0	15.0
14	13.0	10.5	12.0	10.0	15.5	12.0	23.0	18.5	22.5	18.0	16.5	13.5
15	12.0	9.5	13.5	10.5	17.0	14.0	24.0	18.5	23.0	17.5	18.0	14.5
16	12.0	9.5	13.0	11.5	18.0	15.0	25.0	20.0	24.0	18.5	19.5	15.0
17	12.0	9.5	13.5	11.0	18.5	16.0	25.5	20.5	24.0	19.5	20.5	16.0
18	12.5	10.0	13.5	11.5	19.0	16.0	24.5	20.5	21.5	19.5	18.5	16.5
19	12.0	9.5	14.0	12.0	18.0	15.5	24.5	19.0	22.5	17.5	18.5	14.5
20	11.0	9.5	14.0	12.5	18.0	15.0	25.0	20.0	23.5	17.5	18.0	14.5
21	10.0	7.5	13.5	12.5	18.0	15.5	26.5	21.0	24.0	19.0	17.0	14.0
22	9.0	7.5	13.0	12.0	17.5	15.5	26.5	21.0	22.5	19.0	17.0	14.0
23	10.5	8.0	12.0	9.0	17.0	14.5	26.5	21.0	21.5	17.5	17.5	14.0
24	13.0	9.5	10.0	7.5	18.0	15.0	25.5	21.5	22.0	18.0	17.5	14.0
25	13.0	11.0	10.0	8.5	18.5	15.5	26.0	21.0	23.0	19.0	17.5	15.0
26	14.0	11.0	11.5	9.0	18.5	15.5	26.5	21.0	23.0	19.0	18.0	15.5
27	14.0	11.5	12.0	10.0	19.0	15.5	27.0	21.5	22.0	17.5	18.0	15.0
28	13.0	11.5	12.5	10.5	21.0	16.5	24.5	22.5	21.0	17.0	18.5	15.5
29	13.5	10.5	13.0	10.5	21.0	18.5	25.0	20.5	18.0	15.5	18.0	14.5
30	12.0	9.5	12.5	11.0	18.5	17.5	24.5	21.0	18.5	14.5	18.5	14.5
31	---	---	12.5	10.5	---	---	26.0	21.5	21.0	16.0	---	---
MONTH	14.0	6.5	14.0	7.5	21.0	9.0	27.0	13.5	26.5	14.5	22.5	13.5
YEAR	27.0	.5										

10350405 TRUCKEE RIVER RIGHT BANK BELOW TRACY, NV

LOCATION.--Lat 39°33'52", long 119°31'02",, in NW¼NE¼ sec.33, T.20 N., R.22 E., Storey County, Hydrologic Unit 16050102, on right bank 200 ft (60 m) downstream from Tracy powerplant, about 1,500 ft (460 m) downstream from cooling pond outlet, and 13 mi (21 km) east of Sparks.

DRAINAGE AREA.--1,590 mi^2.

PERIOD OF RECORD.--April 1972 to current year.
WATER TEMPERATURES: April 1972 to July 1975, continuous; August 1975 to March 1976, monthly; April 1976 to February 1977, continuous; March 1977 to February 1980, four times per hour; March to September 1980, twice per hour.

INSTRUMENTATION.--Temperature recorder since April 1972.

REMARKS.--Temperature recorder malfunctioned from Mar. 16 to April 8, May 6-28.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
WATER TEMPERATURES: Maximum, 33.5°C June 24, 28, 29, 1977; minimum, freezing point Jan. 5-9, 1973, Jan. 2, 1974, Dec. 13, 1979.

EXTREMES FOR CURRENT YEAR (MEASUREMENTS AT LEAST ONCE-DAILY).--
WATER TEMPERATURES: Maximun, 27.0°C July 22, 26, 27; minimum, freezing point Dec. 13.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	19.0	15.5	9.5	7.5	5.0	3.0	5.5	4.0	3.5	2.0	7.5	6.0
2	19.5	15.5	8.5	7.5	6.5	4.0	4.5	3.5	5.5	3.5	7.5	6.0
3	19.0	15.5	9.0	7.5	7.0	5.5	4.5	3.5	6.5	5.0	7.5	7.0
4	18.5	15.0	9.0	7.5	6.0	5.0	4.5	4.0	8.5	6.0	8.0	7.5
5	19.5	15.5	8.5	7.0	6.5	4.5	5.0	4.0	8.5	7.0	8.0	6.5
6	19.5	15.5	9.0	7.0	6.0	4.0	6.5	4.5	8.5	8.5	6.5	5.0
7	18.5	16.0	9.0	7.0	5.5	3.5	7.0	5.0	7.0	5.0	7.5	5.0
8	18.0	15.5	8.5	7.0	6.0	4.0	7.0	5.0	6.0	4.0	9.0	6.5
9	17.0	14.5	9.0	7.0	6.5	4.0	7.0	5.5	6.0	4.0	9.0	6.5
10	16.5	13.5	8.5	6.5	6.5	4.5	6.5	3.5	6.0	4.5	9.5	7.0
11	16.5	14.0	7.5	6.0	4.0	1.5	4.5	2.5	6.5	4.0	8.0	7.0
12	17.0	14.0	7.0	5.5	1.5	.5	7.0	4.5	7.0	5.0	7.0	6.0
13	16.0	14.5	7.0	5.0	2.0	.0	5.0	4.0	7.0	5.0	---	---
14	15.5	13.5	7.0	5.0	2.5	.5	5.0	3.5	7.0	6.0	9.5	6.0
15	14.0	13.5	7.0	5.0	3.5	1.5	5.0	4.0	8.0	6.5	8.5	5.5
16	15.5	13.0	7.0	5.5	3.5	2.0	5.0	4.0	7.0	5.5	---	---
17	16.0	13.5	8.0	7.0	3.5	2.0	4.5	4.5	6.5	5.5	---	---
18	14.0	12.0	7.5	5.5	3.5	1.5	4.5	2.5	6.5	5.0	---	---
19	13.0	11.0	6.0	4.0	4.0	2.5	3.0	2.0	5.0	4.0	---	---
20	12.0	10.5	5.0	3.0	4.0	3.5	3.5	2.0	5.0	3.0	---	---
21	11.0	9.5	3.5	2.0	4.5	3.5	4.0	2.0	5.0	3.5	---	---
22	11.0	9.5	3.5	2.0	4.0	2.5	4.0	2.5	5.0	2.5	---	---
23	12.5	10.5	6.0	3.5	3.0	2.0	4.0	2.5	6.0	4.0	---	---
24	13.0	11.0	8.5	5.5	4.5	2.5	4.5	3.0	6.5	5.0	---	---
25	12.0	10.5	8.5	7.0	4.0	2.0	5.0	3.5	7.0	5.0	---	---
26	11.0	9.5	6.5	6.0	3.5	2.0	5.0	3.5	8.0	6.0	---	---
27	11.0	9.5	5.0	3.0	3.0	2.0	4.0	2.0	9.5	7.5	---	---
28	10.0	9.5	---	2.5	2.5	1.5	3.5	2.0	8.5	7.0	---	---
29	9.5	8.5	4.5	3.0	3.5	2.0	3.0	2.0	7.5	6.5	---	---
30	8.5	7.5	5.0	3.0	4.0	2.5	2.5	1.5	---	---	---	---
31	9.0	7.0	---	---	5.0	3.5	2.5	2.0	---	---	---	---
MONTH	19.5	7.0	9.5	2.0	7.0	.0	7.0	1.5	9.5	2.0	9.5	5.0

10350405 TRUCKEE RIVER RIGHT BANK BELOW TRACY, NV--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	12.5	9.5	12.5	10.5	21.0	18.0	26.5	22.0	21.5	17.0
2	---	---	14.0	10.5	12.5	10.0	19.5	16.5	26.0	21.0	22.5	17.5
3	---	---	13.0	11.0	12.0	9.0	17.5	14.0	25.0	20.0	21.5	17.5
4	---	---	13.5	10.5	12.0	9.5	19.0	16.5	25.0	20.5	21.5	17.5
5	---	---	12.5	11.5	12.0	9.5	19.5	16.5	24.5	20.0	22.0	18.0
6	---	---	---	---	12.5	10.0	20.5	17.0	23.5	19.5	21.0	18.5
7	---	---	---	---	14.0	11.5	21.0	17.5	23.0	19.0	20.0	17.5
8	---	---	---	---	15.0	13.0	21.0	18.0	23.5	20.0	19.5	17.0
9	12.0	10.0	---	---	15.5	13.0	21.0	17.0	23.5	19.5	20.0	17.0
10	12.5	9.5	---	---	15.5	13.0	22.0	19.5	24.0	19.5	19.5	17.5
11	11.5	---	---	---	15.0	12.5	23.0	18.5	24.5	20.0	20.5	17.0
12	12.0	8.5	---	---	14.5	12.5	23.0	19.0	24.5	20.0	21.0	17.5
13	13.0	9.5	---	---	14.0	12.5	23.0	18.5	24.5	19.5	18.0	15.0
14	13.0	10.5	---	---	15.5	12.0	23.5	18.5	22.5	18.0	16.5	13.5
15	12.0	10.0	---	---	17.0	14.0	24.0	18.5	23.0	17.5	18.0	14.0
16	12.0	9.5	---	---	18.0	15.0	25.5	20.0	24.0	18.5	19.5	15.0
17	12.5	10.0	---	---	18.5	16.0	25.5	20.5	24.5	20.0	20.5	16.0
18	12.5	10.0	---	---	19.0	16.0	24.5	21.0	22.0	19.0	18.5	16.5
19	12.5	10.0	---	---	18.0	16.0	24.5	19.5	22.5	18.0	18.5	15.0
20	11.5	10.0	---	---	18.0	15.0	25.5	20.5	23.5	18.0	18.0	15.0
21	10.0	7.5	---	---	18.0	15.5	26.5	21.0	24.0	19.0	17.0	14.0
22	9.0	7.5	---	---	17.5	15.5	27.0	21.5	22.5	19.0	17.0	14.0
23	11.0	8.0	---	---	17.5	16.0	26.5	25.0	22.0	18.0	17.5	14.0
24	13.0	10.0	---	---	18.5	15.5	26.0	21.5	22.5	18.0	17.5	14.5
25	13.5	11.0	---	---	18.5	16.0	26.5	21.0	23.5	19.0	17.5	15.0
26	14.0	11.5	---	---	---	---	27.0	21.0	23.0	19.0	18.5	16.0
27	14.5	11.5	---	---	---	---	27.0	21.5	22.0	17.5	18.5	15.0
28	13.5	12.0	---	---	---	---	25.0	23.0	21.0	17.0	19.0	15.5
29	13.5	10.5	13.0	10.5	---	---	25.5	21.0	18.0	15.5	18.0	15.0
30	12.5	10.0	12.5	11.0	---	---	25.0	21.5	18.5	15.0	19.0	14.5
31	---	---	12.5	10.5	---	---	26.0	22.0	21.0	16.0	---	---
MONTH	14.5	7.5	14.0	9.5	18.5	9.0	27.0	14.0	26.5	15.0	22.5	13.5
YEAR	27.0	.0										

10350500 TRUCKEE RIVER AT CLARK, NV

LOCATION.--Lat 39°33'55", long 119°29'02", in SE¼SW¼ sec.26, T.20 N., R.22 E., Storey County, Hydrologic Unit 16050102, on right bank about 30 ft (10 m) downstream from Clark Bridge, about 2 mi (3 km) downstream from cooling pond outlet at Tracy powerplant, and approximately 0.2 mi (0.3 km) west of Clark.

DRAINAGE AREA.--1,600 mi^2 (4,100 km^2), approximately.

PERIOD OF RECORD.--April 1972 to current year.
WATER TEMPERATURES: April and May 1972, monthly; June 1972 to September 1977, continuous; Oct. 1977 to May 1978, monthly; June 1978 to February 1980, four times per hour; March to September 1980, twice per hour.

INSTRUMENTATION.--Temperature recorder since June 1972.

REMARKS.--Temperature recorder malfunctioned from Oct. 31 to Nov. 25, March 5 to April 20, May 1-12, Sept. 6-30.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
WATER TEMPERATURES: Maximum, 29.5°C June 4, 1977 (temperature presumably higher during period of recorder malfunction in June 1977); minimum, freezing point on several days in January 1973 and January 1974.

EXTREMES FOR CURRENT YEAR (MEASUREMENTS AT LEAST ONCE-DAILY).--
WATER TEMPERATURES: Maximum, 26.5°C July 27; minimum, 0.5°C Dec. 13, 14.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	19.5	15.5	---	---	6.5	4.5	7.0	6.0	2.5	1.5	7.5	6.5
2	20.0	15.5	---	---	8.0	5.5	6.5	5.0	4.5	2.0	7.5	6.5
3	19.0	15.5	---	---	8.5	6.5	5.5	4.5	5.5	4.0	8.0	7.0
4	19.0	15.5	---	---	7.5	6.0	5.5	4.5	7.5	5.0	8.0	7.0
5	19.5	15.5	---	---	7.5	6.0	5.5	4.5	7.5	6.5	---	---
6	19.5	16.0	---	---	7.5	5.0	6.5	4.5	8.0	6.5	---	---
7	19.0	16.0	---	---	6.5	4.5	6.5	4.5	6.5	4.5	---	---
8	18.5	15.0	---	---	7.0	5.0	6.5	4.5	5.5	3.5	---	---
9	17.5	14.5	---	---	7.0	5.0	8.0	5.5	5.5	3.5	---	---
10	17.0	13.5	---	---	7.5	5.5	8.0	3.0	5.5	3.5	---	---
11	17.0	13.5	---	---	5.5	2.5	5.5	2.0	5.5	3.5	---	---
12	17.0	13.5	---	---	2.5	1.0	7.0	5.5	6.5	4.0	---	---
13	16.0	14.0	---	---	2.5	.5	7.0	5.5	6.0	4.0	---	---
14	15.5	13.5	---	---	3.5	.5	7.0	5.5	5.5	4.5	---	---
15	14.5	13.5	---	---	3.5	1.5	7.0	7.0	6.5	5.0	---	---
16	16.0	13.0	---	---	4.0	1.5	7.0	7.0	6.0	4.5	---	---
17	16.0	13.0	---	---	3.5	1.5	7.0	7.0	7.5	4.5	---	---
18	14.5	12.5	---	---	3.5	1.0	7.0	3.5	7.5	6.0	---	---
19	13.5	11.5	---	---	5.0	3.0	5.0	3.0	6.0	5.0	---	---
20	12.5	10.5	---	---	4.0	3.5	5.0	2.0	5.0	3.5	---	---
21	11.0	9.0	---	---	4.0	3.5	5.5	2.0	6.5	4.5	---	---
22	12.0	9.0	---	---	4.5	2.0	6.0	2.5	4.5	3.0	---	---
23	12.5	10.0	---	---	2.5	1.5	5.5	3.0	5.5	4.0	---	---
24	13.0	11.0	---	---	5.5	2.0	5.5	3.0	5.5	5.0	---	---
25	12.5	11.0	---	---	5.0	2.0	5.0	3.5	7.0	5.5	---	---
26	11.5	9.5	7.0	5.5	4.0	2.0	4.5	3.0	8.0	6.0	---	---
27	11.0	9.5	5.0	3.5	3.5	2.0	3.5	2.0	8.5	7.0	---	---
28	11.0	9.5	6.5	3.0	2.0	1.5	3.0	2.0	8.5	7.5	---	---
29	9.5	8.5	6.0	4.0	3.5	1.5	2.5	1.5	8.0	7.0	---	---
30	9.0	7.5	6.5	4.5	5.5	2.0	2.0	1.0	---	---	---	---
31	---	---	---	---	6.5	4.0	---	1.5	---	---	---	---
MONTH	20.0	7.5	7.0	3.0	8.5	.5	8.0	1.0	8.5	1.5	8.0	6.5

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	---	---	12.5	12.0	20.5	18.0	25.5	22.0	21.0	17.0
2	---	---	---	---	12.5	11.5	19.5	17.0	25.0	21.0	21.5	18.0
3	---	---	---	---	12.0	10.0	17.0	14.5	24.5	20.0	19.0	17.0
4	---	---	---	---	12.0	11.0	18.5	16.0	24.0	20.5	21.0	17.5
5	---	---	---	---	12.0	11.0	19.0	17.0	24.0	20.0	21.0	17.5
6	---	---	---	---	12.5	11.0	20.0	17.0	22.5	19.0	---	---
7	---	---	---	---	14.0	12.0	20.5	17.5	22.0	19.0	---	---
8	---	---	---	---	15.0	13.0	21.0	18.0	22.5	19.5	---	---
9	---	---	---	---	15.5	13.5	21.0	17.0	22.5	19.5	---	---
10	---	---	---	---	15.5	13.5	21.5	17.5	23.0	19.0	---	---
11	---	---	---	---	15.0	13.5	22.5	18.5	23.5	19.5	---	---
12	---	---	---	---	14.5	13.0	22.0	19.0	24.0	20.0	---	---
13	---	---	10.5	9.5	14.0	12.5	22.5	18.5	23.5	19.5	---	---
14	---	---	11.0	10.0	15.0	12.5	22.5	19.0	21.5	18.5	---	---
15	---	---	12.5	10.5	17.0	14.0	23.5	19.0	21.5	18.0	---	---
16	---	---	12.5	11.5	18.0	15.5	24.5	20.0	22.5	19.0	---	---
17	---	---	12.5	11.0	18.5	16.0	24.5	20.5	23.5	20.0	---	---
18	---	---	13.0	11.5	18.5	16.5	24.0	20.5	22.0	20.0	---	---
19	---	---	13.5	12.5	18.0	16.5	24.0	19.5	21.5	17.5	---	---
20	---	---	13.5	12.5	18.0	15.5	25.0	20.5	22.0	18.0	---	---
21	7.5	7.0	13.5	12.5	18.0	16.0	26.0	21.0	23.0	19.5	---	---
22	8.0	7.0	13.0	12.5	17.5	16.0	26.0	21.5	21.5	19.5	---	---
23	9.5	8.0	12.5	9.5	17.5	15.5	26.0	22.0	21.0	18.5	---	---
24	12.0	9.5	10.0	8.5	18.5	15.5	25.5	21.5	21.5	18.0	---	---
25	12.5	11.0	10.0	9.0	18.5	16.0	25.5	21.0	22.0	18.5	---	---
26	13.0	11.0	11.0	9.5	18.5	16.0	26.0	21.5	22.0	19.0	---	---
27	13.0	11.5	11.5	10.5	18.5	16.0	26.5	22.0	21.5	18.0	---	---
28	13.0	11.5	12.5	10.5	20.5	17.0	25.0	23.5	20.5	17.5	---	---
29	12.5	10.5	12.5	11.5	21.0	18.5	24.5	21.0	19.0	16.5	---	---
30	12.0	10.0	12.5	12.0	19.0	18.0	24.0	21.5	18.0	15.0	---	---
31	---	---	12.5	12.0	---	---	25.0	22.0	20.0	16.0	---	---
MONTH	13.0	7.0	13.5	8.5	21.0	10.0	26.5	14.5	25.5	15.0	21.5	17.0
YEAR	26.5	.5										

10351300 TRUCKEE CANAL NEAR WADSWORTH, NV

LOCATION.--Lat 39°36'25", long 119°18'35", in NW¼NE¼ sec.17, T.20 N., R.24 E., Storey County, Hydrologic Unit 16050102 on left bank at upstream end of Tunnel No. 3 and 2 mi (3 km) southwest of Wadsworth.

PERIOD OF RECORD.--October 1966 to current year.

REVISED RECORDS.--WDR NV-77-1: 1975

GAGE.--Water-stage recorder. Altitude of gage is 4,200 ft (1,280 m), from topographic map. Since Feb. 13, 1967, auxiliary water-stage recorder on left bank 0.3 mi (0.5 km) downstream from base gage.

REMARKS.--Records poor. Flow is regulated by Derby Dam (including two wasteways between gage and Derby Dam) and many reservoirs, powerplants, and diversions above Derby Dam.

AVERAGE DISCHARGE.--14 years, 282 ft^3/s (7.986 m^3/s), 204,300 acre-ft/yr (252 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 955 ft^3/s (27.0 m^3/s) June 10, 1970; no flow at times in some years.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	205	274	370	568	27	4.9	114	192	199	236	203	248
2	229	264	365	552	27	39	118	195	172	100	186	242
3	227	333	372	517	27	42	122	263	142	202	181	262
4	218	326	364	475	26	42	123	252	126	237	197	264
5	204	326	351	451	26	40	124	237	125	234	201	262
6	202	319	356	411	25	39	134	228	123	227	203	264
7	215	319	373	399	25	38	133	217	142	219	234	274
8	229	368	368	391	25	37	129	206	160	212	247	287
9	262	373	365	388	26	34	125	203	156	200	243	294
10	247	394	362	516	26	32	129	197	170	209	237	285
11	242	369	360	532	26	29	133	197	139	232	234	279
12	258	346	354	606	26	28	132	198	126	223	208	276
13	255	342	340	546	26	26	141	194	145	244	195	262
14	280	350	349	225	26	25	164	183	199	256	187	266
15	277	351	352	13	27	21	178	162	172	251	196	265
16	311	355	345	35	28	20	169	156	163	249	202	266
17	305	368	342	121	30	18	173	176	182	238	202	255
18	290	379	346	114	40	16	177	194	202	243	206	254
19	308	371	344	93	92	15	178	206	194	248	217	260
20	385	354	357	52	46	12	191	212	188	247	196	262
21	441	354	349	33	38	12	192	212	193	246	179	269
22	427	353	367	36	36	43	118	194	232	236	189	281
23	432	375	357	31	31	82	14	166	233	200	239	278
24	428	388	436	30	24	87	50	152	234	203	255	281
25	428	364	541	30	13	111	140	163	225	200	252	291
26	455	462	478	29	7.1	154	192	164	228	187	221	290
27	504	437	415	27	4.9	134	204	158	250	192	213	288
28	489	370	407	27	5.5	95	206	152	243	195	210	285
29	307	374	391	28	5.4	30	210	150	247	197	210	278
30	300	372	386	30	---	90	219	178	260	231	226	270
31	284	---	489	30	---	97	---	196	---	233	245	---
TOTAL	9644	10730	11751	7336	791.9	1552.9	4432	5953	5570	6827	6614	8138
MEAN	311	358	379	237	27.3	50.1	148	192	186	220	213	271
MAX	504	462	541	606	92	154	219	263	260	256	255	294
MIN	202	264	340	13	4.9	4.9	14	150	123	100	179	242
AC-FT	19130	21280	23310	14550	1570	3080	8790	11810	11050	13540	13120	16140

CAL YR 1979 TOTAL 123384.70 MEAN 338 MAX 746 MIN .00 AC-FT 244700
WTR YR 1980 TOTAL 79339.80 MEAN 217 MAX 606 MIN 4.9 AC-FT 157400

10351400 TRUCKEE CANAL NEAR HAZEN, NV

LOCATION.--Lat 39°32'15", long 119°04'15", in NE¼SW¼ sec.4, T.19 N., R.26 E., Churchill County, Hydrologic Unit 16050203, on left bank 0.1 mi (0.2 km) downstream from Hazen check dam and 2.3 mi (3.7 km) southwest of Hazen.

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,172.10 ft (1,271.656 m) Bureau of Reclamation datum. Since Mar. 17, 1972, auxiliary water-stage recorder 20 ft (6 m) upstream from KX lateral diversion canal. Oct. 1, 1967, to Mar. 17, 1972, auxiliary water-stage recorder on right bank approximately 6 mi (10 km) downstream from base gage.

REMARKS.--Records poor, stage discharge relation indefinite March through September. Flow regulated by Derby Dam, diversions, and spillways between Derby Dam and station.

AVERAGE DISCHARGE.--14 years, 213 ft^3/s (6.032 m^3/s), 154,300 acre-ft/yr (190 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 916 ft^3/s (25.9 m^3/s) Feb. 3, 1967; no flow at times.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	185	270	344	508	30	3.0	103	172	141	177	136	199
2	167	259	342	522	25	10	106	172	138	127	120	195
3	211	285	341	496	24	35	110	190	112	85	110	185
4	196	321	345	461	24	34	111	160	93	154	105	195
5	179	329	342	432	13	34	112	150	93	172	105	195
6	142	317	334	395	16	34	123	140	96	183	105	200
7	104	310	339	373	20	33	123	136	100	160	107	205
8	158	322	341	364	20	31	116	135	108	150	110	224
9	207	355	333	367	21	31	112	135	106	140	125	223
10	212	358	327	401	22	30	116	138	100	155	120	222
11	187	355	321	526	21	30	120	140	94	145	120	200
12	182	349	315	496	21	29	119	141	100	150	110	192
13	208	321	331	568	21	26	127	131	110	165	100	190
14	237	329	321	369	21	22	148	125	118	165	92	190
15	247	342	322	100	21	19	160	112	100	160	98	188
16	277	336	317	14	22	16	152	105	100	150	98	182
17	293	344	310	70	24	14	156	108	105	155	105	190
18	260	352	307	108	27	13	159	112	118	160	115	190
19	261	349	313	60	79	12	160	118	115	165	113	190
20	279	328	318	58	56	11	172	128	110	165	108	190
21	345	321	319	33	37	10	173	145	120	170	100	195
22	363	320	327	24	31	12	106	134	130	159	120	197
23	365	325	332	25	27	45	13	110	130	140	150	201
24	370	341	354	24	22	76	45	94	128	140	195	194
25	371	341	481	24	15	86	126	88	130	135	209	214
26	367	358	481	24	5.3	140	173	88	135	138	150	226
27	405	394	402	22	3.0	111	184	88	143	138	142	228
28	440	372	385	23	3.5	95	186	90	157	138	142	222
29	328	336	368	24	3.5	91	191	94	146	138	150	220
30	282	346	359	25	---	90	197	98	168	142	162	215
31	284	---	412	32	---	85	---	106	---	169	187	---
TOTAL	8112	9985	10783	6968	675.3	1308.0	3999	3883	3544	4690	3909	6057
MEAN	262	333	348	225	23.3	42.2	133	125	118	151	126	202
MAX	440	394	481	568	79	140	197	190	168	183	209	228
MIN	104	259	307	14	3.0	3.0	13	88	93	85	92	182
AC-FT	16090	19810	21390	13820	1340	2590	7930	7700	7030	9300	7750	12010

CAL YR 1979 TOTAL 102446.49 MEAN 281 MAX 686 MIN .00 AC-FT 203200
WTR YR 1980 TOTAL 63913.30 MEAN 175 MAX 568 MIN 3.0 AC-FT 126800

10351600 TRUCKEE RIVER BELOW DERBY DAM, NEAR WADSWORTH, NV

LOCATION.--Lat 39°35'05", long 119°26'25", in NW¼SE¼ sec.19, T.20 N., R.23 E., Storey County, Hydrologic Unit 16050102, on right bank 1,500 ft (500 m) downstream from Derby Dam, 3.2 mi (5.1 km) downstream from Clark, and 9 mi (14 km) southwest of Wadsworth.

DRAINAGE AREA.--1,676 mi^2 (4,341 km^2).

PERIOD OF RECORD.--January 1909 to December 1910, January to December 1916, January 1918 to July 1958, October 1958 to current year. Monthly discharge only for some periods, published in WSP 1734.

REVISED RECORDS.--WSP 1714: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,200 ft (1,280 m), from topographic map.

REMARKS.--Records good, except those for period of no gage-height record Nov. 2 to Jan. 14, which are poor. Flow regulated by Lake Tahoe, Prosser Creek, Stampede and Boca Reservoirs, other lakes, powerplants many diversions for irrigation, and by Derby Dam. Truckee Canal diverts water at Derby Dam out of basin to Lahontan Reservoir.

AVERAGE DISCHARGE.--61 years (1918-57, 1958-80), 328 ft^3/s (9.289 m^3/s), 237,600 acre-ft/yr (293 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,400 ft^3/s (521 m^3/s) Feb. 1, 1963, gage height, 14.26 ft (4.346 m), from rating curve extended above 1,500 ft^3/s (42.5 m^3/s) on basis of slope-area measurement of peak flow; no flow Aug. 8-11, 1924, Sept. 1-7, 10, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, about 8,700 ft^3/s (246 m^3/s) Jan. 14, gage height, unknown; minimum daily, 3.0 ft^3/s (0.085 m^3/s) Nov. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	207	15	40	544	834	390	1160	1900	329	79	63
2	60	96	14	62	534	796	403	1140	1840	391	74	63
3	60	17	15	40	527	808	417	1250	1900	683	72	64
4	59	19	16	22	524	766	412	1420	1810	525	72	65
5	56	21	17	17	485	750	449	1480	1840	438	71	65
6	56	22	20	14	473	737	498	1410	1730	357	72	106
7	56	3.0	22	12	481	728	451	1430	1550	367	101	91
8	55	5.0	21	10	481	687	432	1520	1400	320	95	115
9	57	8.0	20	12	469	652	435	1430	1310	281	92	131
10	57	12	19	37	456	639	457	1440	1220	169	89	89
11	56	17	21	23	453	626	481	1360	1110	132	83	77
12	56	16	18	280	450	616	493	1260	970	87	75	71
13	56	17	18	5000	440	601	509	1300	808	87	69	65
14	67	12	20	7110	458	608	595	1400	666	102	67	65
15	95	11	22	3770	512	600	822	1380	585	71	67	64
16	64	15	23	3180	571	585	911	1590	602	45	67	64
17	64	24	22	3080	670	571	969	1670	639	45	67	64
18	64	29	26	2900	1900	582	1050	1700	658	74	67	63
19	67	36	20	2200	2770	584	1110	1750	639	63	72	62
20	95	32	8.3	1500	2220	568	1410	1790	615	40	71	63
21	117	31	9.0	1180	1700	577	1510	1900	559	37	56	63
22	79	29	10	940	1610	575	1230	2030	493	45	22	68
23	68	26	14	840	1280	555	986	2030	448	77	66	71
24	68	27	20	779	1130	542	762	1870	399	81	48	72
25	72	27	27	757	1040	428	777	1900	371	78	58	102
26	107	26	39	643	902	364	773	1800	343	75	67	102
27	107	56	23	577	876	360	826	1810	290	75	63	80
28	207	25	18	616	950	360	910	1800	265	75	62	72
29	304	19	12	664	904	353	1060	1780	272	76	62	70
30	276	17	11	608	---	360	1220	1820	308	86	62	71
31	236	---	12	565	---	380	---	1890	---	89	63	---
TOTAL	2902	902.0	572.3	37478	25810	18192	22748	49510	27540	5400	2151	2281
MEAN	93.6	30.1	18.5	1209	890	587	758	1597	918	174	69.4	76.0
MAX	304	207	39	7110	2770	834	1510	2030	1900	683	101	131
MIN	55	3.0	8.3	10	440	353	390	1140	265	37	22	62
AC-FT	5760	1790	1140	74340	51190	36080	45120	98200	54630	10710	4270	4520

CAL YR 1979 TOTAL 40968.4 MEAN 112 MAX 1440 MIN 3.0 AC-FT 81260
WTR YR 1980 TOTAL 195486.3 MEAN 534 MAX 7110 MIN 3.0 AC-FT 387700

10351650 TRUCKEE RIVER AT WADSWORTH, NV

LOCATION.--Lat 39°38'19", long 119°16'09", in SW¼SW¼ sec. 34, T.21 N., R.24 E., Washoe County, Hydrologic Unit 16050102, in Pyramid Lake Indian Reservation, on right bank 0.5 mi (0.8 km) downstream from U.S. Highway 40 bridge and 0.2 mi (0.3 km) northeast of Wadsworth.

DRAINAGE AREA.--1,728 mi^2 (4,475 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1965 to current year.

REVISED RECORDS.--WDR NV-79-1: Drainage area.

GAGE.--Water-stage recorder with thermograph attachment. Datum of gage is 4,037.90 ft (1,230.752 m) National Geodetic Vertical Datum of 1929, supplementary adjustment of 1956.

REMARKS.--Records poor. Flow regulated by Lake Tahoe, Prosser Creek, Stampede and Boca Reservoirs, other lakes, powerplants, many diversions for irrigation above and below station, and by Derby Dam which diverts water out of the basin to Lahontan Reservoir.

AVERAGE DISCHARGE.--15 years, 526 ft^3/s (14.90 m^3/s), 381,100 acre-ft/yr (470 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,820 ft^3/s (250 m^3/s) Jan. 14, 1980, gage height, 12.41 ft (3.783 m); minimum daily discharge, 3.1 ft^3/s (0.088 m^3/s) Sept. 4, 1978, Nov. 7, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,820 ft^3/s (250 m^3/s) Jan. 14, gage height, 12.41 ft (3.783 m); minimum daily, 3.1 ft^3/s (0.088 m^3/s) Nov. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	212	17	45	512	754	414	1240	1960	379	87	62
2	24	191	16	66	504	714	431	1250	1940	525	82	57
3	35	38	17	36	500	719	423	1270	2050	759	69	62
4	38	23	17	23	495	694	412	1490	1980	614	73	60
5	34	25	19	20	467	680	462	1590	2020	500	75	64
6	27	26	19	16	455	670	542	1530	1940	390	84	107
7	30	3.1	21	14	461	661	495	1550	1710	382	100	93
8	43	4.2	23	12	463	628	471	1670	1530	323	100	115
9	46	9.2	21	11	447	591	487	1580	1440	275	94	128
10	46	12	19	39	435	582	525	1610	1320	156	91	86
11	44	19	21	25	431	568	560	1530	1260	112	94	78
12	34	17	19	229	423	564	560	1420	1100	86	71	70
13	37	19	20	5160	420	551	551	1440	882	68	62	65
14	41	15	20	7800	427	551	600	1600	685	81	55	65
15	75	12	23	3790	483	546	573	1620	609	66	59	65
16	39	18	24	2780	538	529	920	1780	642	41	80	64
17	52	26	24	2700	618	516	989	1840	646	43	75	63
18	58	32	22	2430	1520	529	1100	1830	660	68	57	62
19	62	38	28	1940	2450	542	1170	1840	660	50	61	62
20	90	34	15	1270	2040	521	1370	1870	637	37	60	63
21	110	32	15	954	1490	529	1460	1970	577	32	60	64
22	71	31	15	833	1440	529	1320	2080	487	28	38	67
23	49	27	15	749	1160	508	1100	2120	447	57	55	70
24	50	28	19	714	1010	500	811	1980	397	67	69	76
25	62	29	31	699	932	416	759	2010	357	74	58	105
26	84	27	42	613	817	336	744	1910	336	70	72	100
27	101	38	23	537	785	357	843	1920	271	72	63	85
28	131	60	18	555	843	397	949	1920	241	74	67	71
29	287	20	14	623	811	386	1150	1890	250	93	70	70
30	271	18	13	568	---	390	1290	1890	293	93	65	70
31	241	---	15	533	---	404	---	1930	---	99	63	---
TOTAL	2334	1083.5	625	35784	23377	16862	23481	53170	29327	5714	2209	2269
MEAN	75.3	36.1	20.2	1154	806	544	783	1715	978	184	71.3	75.6
MAX	287	212	42	7800	2450	754	1460	2120	2050	759	100	128
MIN	22	3.1	13	11	420	336	412	1240	241	28	38	57
AC-FT	4630	2150	1240	70980	46370	33450	46570	105500	58170	11330	4380	4500

CAL YR 1979 TOTAL 41025.9 MEAN 112 MAX 1670 MIN 3.1 AC-FT 81370
WTR YR 1980 TOTAL 196235.5 MEAN 536 MAX 7800 MIN 3.1 AC-FT 389200

10351650 TRUCKEE RIVER AT WADSWORTH, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1965 to current year.
CHEMICAL ANALYSES: September 1969 to April 1972, monthly or less frequently.
SPECIFIC CONDUCTANCES: September 1969 to January 1973, monthly or less frequently; March 1977 to September 1980. monthly.
WATER TEMPERATURES: March to June 1965, monthly; July 1965 to December 1979, continuous; January to September 1980, hourly.

INSTRUMENTATION.--Temperature recorder since July 1965.

REMARKS.--Temperature recorder malfunctioned Jan. 11 to Feb. 8, July 28 to Aug. 9 and Aug. 15 to Sept. 30.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 505 micromhos Oct. 14, 1977; minimum, 99 micromhos May 15, 1978.
WATER TEMPERATURES: Maximum, 28.5°C July 20, Aug. 11, 12, 1970, July 27, 28, 1971, July 18, 1979; July 27, 1980; minimum freezing point on several days during winter months of 1974-76.

EXTREMES FOR CURRENT YEAR (MEASUREMENTS AT LEAST ONCE-DAILY).--
WATER TEMPERATURES: Maximum, 28.5°C July 27; minimum, 0.5°C Jan. 2-4.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)
OCT , 1979				
10...	1130	47	283	—
18...	1010	59	253	15.5
NOV				
28...	1220	20	275	7.5
DEC				
20...	1240	15	270	3.0
FEB , 1980				
07...	1230	449	272	5.5
MAR				
06...	1150	775	246	7.5
MAY , 1980				
08...	1140	1600	111	12.5
JUL				
09...	1355	265	233	21.5
23...	1135	63	282	21.5
AUG				
13...	1300	58	273	20.5
SEP				
05...	1200	63	286	19.0

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	20.0	18.0	11.0	9.5	8.5	7.0	4.5	1.5	---	---	6.0	5.0
2	20.0	18.0	11.0	10.0	9.0	7.5	2.5	.5	---	---	6.5	5.0
3	20.0	18.0	11.0	10.0	10.0	9.0	2.0	.5	---	---	7.5	5.5
4	20.0	18.0	12.0	11.0	10.0	9.0	3.0	.5	---	---	8.5	5.5
5	20.0	17.5	12.0	10.5	10.5	9.0	4.5	2.0	---	---	8.0	6.0
6	20.0	18.0	11.0	10.5	10.0	9.0	6.0	3.5	---	---	7.5	4.5
7	19.5	18.0	12.0	11.0	10.0	8.5	6.0	4.5	---	---	6.5	4.0
8	19.0	17.0	12.0	11.0	10.0	8.0	8.0	6.0	6.5	---	8.5	5.0
9	19.0	17.0	12.0	11.0	10.0	8.0	7.5	5.5	6.5	3.5	9.0	5.5
10	18.0	16.0	12.0	10.5	9.5	8.5	7.0	5.5	6.0	4.5	9.0	5.5
11	18.5	16.5	11.0	10.5	9.0	8.0	---	---	6.0	4.0	8.5	5.5
12	17.0	16.0	11.0	10.0	7.5	6.0	---	---	7.0	4.5	8.0	4.5
13	18.0	17.0	10.5	9.5	7.0	6.0	---	---	7.0	5.0	8.5	5.0
14	17.5	16.0	10.0	9.0	7.0	6.0	---	---	7.0	5.5	8.5	5.5
15	17.0	16.5	10.0	9.0	7.0	6.0	---	---	7.0	6.0	7.5	5.0
16	17.5	16.0	9.5	9.0	7.0	6.0	---	---	7.0	6.0	8.5	4.5
17	18.0	16.0	10.0	9.0	7.5	6.0	---	---	7.0	5.5	9.0	4.5
18	17.5	15.5	10.0	10.0	8.0	6.0	---	---	6.0	5.0	8.0	6.0
19	17.0	15.0	10.0	8.0	8.0	6.5	---	---	5.0	4.0	9.5	5.5
20	16.0	13.0	8.5	7.0	---	---	---	---	5.0	4.0	9.5	6.5
21	14.0	11.0	8.0	6.5	5.5	4.0	---	---	5.0	4.0	9.0	6.0
22	13.5	12.0	7.0	6.0	5.5	3.5	---	---	5.0	3.5	8.5	5.5
23	15.0	13.0	8.0	6.5	4.5	2.5	---	---	6.0	3.5	9.5	6.0
24	15.0	13.0	11.0	8.0	4.0	1.5	---	---	6.5	4.5	9.5	6.5
25	15.0	13.0	12.0	10.0	3.5	1.0	---	---	7.0	5.5	8.0	6.0
26	13.5	11.5	10.5	10.0	4.5	2.0	---	---	8.0	6.0	9.5	5.5
27	13.5	11.5	9.5	9.0	5.5	2.5	---	---	8.5	6.5	10.0	6.0
28	13.0	12.0	8.0	7.0	5.5	2.5	---	---	8.5	5.5	11.0	6.5
29	12.0	10.0	8.0	7.0	7.0	3.5	---	---	7.5	5.5	12.0	7.0
30	11.0	9.0	8.5	7.0	6.0	4.0	---	---	---	---	11.5	9.0
31	11.0	9.5	---	---	6.0	3.5	---	---	---	---	10.0	7.0
MONTH	20.0	9.0	12.0	6.0	10.5	1.0	8.0	.5	8.5	3.5	12.0	4.0

10351650 TRUCKEE RIVER AT WADSWORTH, NV--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.0	6.5	13.5	9.5	13.0	11.0	21.5	18.0	---	---		
2	9.5	6.0	14.5	11.0	---	---	21.0	19.0	---	---		
3	10.0	6.5	14.5	12.0	---	---	19.0	17.5	---	---		
4	11.0	6.5	13.5	11.5	11.0	10.0	20.5	15.5	---	---		
5	11.5	7.5	13.5	12.0	11.5	10.0	21.5	16.0	---	---		
6	12.0	7.0	13.5	10.0	13.5	10.5	22.0	16.5	---	---		
7	12.0	7.0	13.0	11.5	15.0	---	22.5	17.5	---	---		
8	12.5	7.5	13.5	10.0	16.5	13.0	23.5	18.0	---	---		
9	14.0	8.5	11.5	9.0	17.0	13.5	23.0	17.0	---	---		
10	14.0	9.0	9.5	7.5	16.5	13.5	23.5	16.5	26.5	20.0		
11	13.0	9.0	9.5	7.5	16.5	13.5	---	---	26.5	20.0		
12	14.0	9.0	11.0	8.0	15.5	13.0	---	---	26.5	20.5		
13	14.5	9.5	12.0	9.0	15.0	---	---	---	26.5	20.0		
14	15.0	11.5	11.5	10.5	17.0	11.5	---	---	23.0	18.5		
15	13.0	10.5	14.0	11.0	19.0	13.5	25.5	18.5	---	---		
16	13.0	7.5	13.5	12.0	20.0	14.5	26.5	19.5	---	---		
17	13.5	10.0	14.0	11.5	21.0	16.0	26.0	19.5	---	---		
18	13.5	10.5	14.0	11.5	20.5	16.0	26.0	20.5	---	---		
19	13.5	10.5	15.0	12.5	18.5	16.0	26.0	19.0	---	---		
20	12.0	9.5	15.5	13.0	20.0	15.5	27.0	19.5	---	---		
21	9.0	7.0	14.5	12.5	21.0	16.0	27.5	20.5	---	---		
22	9.0	6.5	14.5	12.0	20.5	15.5	28.0	21.5	---	---		
23	10.0	7.5	11.5	8.5	20.0	17.0	28.0	21.5	---	---		
24	13.5	9.5	9.5	8.0	21.0	16.5	27.5	21.0	---	---		
25	15.0	11.0	10.0	8.0	20.5	15.5	27.5	21.0	---	---		
26	15.5	11.5	11.0	8.5	21.0	17.0	27.5	21.5	---	---		
27	15.5	12.5	12.0	10.5	21.5	15.5	28.5	21.5	---	---		
28	13.5	12.5	12.5	10.5	23.5	16.5	26.0	22.5	---	---		
29	14.0	11.5	13.0	11.5	22.0	19.0	---	---	---	---		
30	13.0	10.5	13.0	11.5	20.0	18.5	---	---	---	---		
31	---	---	12.5	11.0	---	---	---	---	---	---		
MONTH	15.5	6.0	15.5	7.5	23.5	10.0	28.5	15.5	26.5	18.5		
YEAR	28.5	.5										

10351700 TRUCKEE RIVER NEAR NIXON, NV

(National stream-quality accounting network and pesticide network station)

LOCATION.--Lat 39°46'40", long 119°20'10", in SW¼NW¼ sec.18, T.22 N., R.24 E., Washoe County, Hydrologic Unit 16050103, in Pyramid Lake Indian Reservation, on right bank 1.0 mi (1.6 km) upstream from Numana Dam, 4 mi (6 km) south of Nixon, and 13 mi (21 km) upstream from mouth.

DRAINAGE AREA.--1,827 mi^2 (4,732 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1957 to current year. Records kept by Federal Court Watermaster April to June 1926, May 1928 to Sept. 1957 at site 1.0 mi (1.6 km) downstream (Truckee River below Pyramid Dam, near Nixon, Nev.) not equivalent, but would be equivalent by adding flow of Indian Canal, both of which are available in files of Federal Court Watermaster. Currently, these records are kept only at times of diversion to the canal. At other times, the records are equivalent.

GAGE.--Water-stage recorder. Altitude of gage is 3,940 ft (1,201 m), from topographic map.

REMARKS.--Records good. Flow regulated by Lake Tahoe, Prosser Creek, Stampede and Boca Reservoirs, other lakes, powerplants, and many diversions for irrigation. Truckee Canal often diverts much of the flow at Derby Dam, about 25 mi (40 km) upstream, out of basin to Lahontan Reservoir. Several diversions for irrigation between station and Truckee Canal. One irrigation canal diverts between station and mouth of river.

AVERAGE DISCHARGE.--23 years, 430 ft^3/s (12.18 m^3/s), 311,500 acre-ft/yr (384 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,400 ft^3/s (408 m^3/s) Feb. 2, 1963, gage height, 14.39 ft (4.386 m); minimum daily 8.1 ft^3/s (0.23 m^3/s) July 7, 1960.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 24, 1955, reached a stage of 14.1 ft (4.298 m), from floodmarks, discharge, 14,000 ft^3/s (396 m^3/s), by flow-over-dam measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,600 ft^3/s (244 m^3/s) Jan. 14, gage height, 10.10 ft (3.078 m); minimum daily, 29 ft^3/s (0.82 m^3/s) Jan. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	217	39	80	502	890	40	1190	2040	308	97	76
2	50	193	37	128	493	835	35	1190	2010	513	93	74
3	52	137	36	75	488	838	33	1140	2140	601	83	68
4	53	81	35	46	488	800	33	1340	2060	576	81	70
5	53	74	35	39	464	773	33	1470	2080	475	75	68
6	51	74	34	35	438	766	33	1420	2000	401	75	70
7	50	65	34	33	446	751	34	1450	1760	374	84	107
8	56	50	35	32	446	713	34	1550	1560	354	93	105
9	61	49	35	31	438	668	37	1490	1440	310	90	137
10	62	46	34	30	424	650	36	1510	1330	239	84	126
11	61	46	33	29	420	642	36	1450	1240	175	86	103
12	57	45	54	200	412	632	55	1370	1140	149	73	94
13	56	44	57	4500	407	604	56	1360	929	120	63	86
14	58	41	34	8000	407	607	53	1480	736	116	57	82
15	71	39	35	4300	455	602	53	1500	624	112	60	79
16	82	39	33	2800	517	585	55	1640	641	98	70	77
17	75	40	45	2700	568	568	56	1780	644	92	74	72
18	75	38	47	2500	1300	578	55	1800	640	85	58	69
19	75	37	33	1800	2890	589	63	1840	638	80	55	69
20	79	37	33	1350	2530	559	292	1890	608	74	66	74
21	109	42	34	1000	1770	564	260	1990	578	68	62	72
22	108	34	33	860	1720	571	1400	2150	500	76	65	73
23	88	34	32	800	1410	546	1190	2220	461	65	54	79
24	81	34	34	750	1220	536	910	2090	416	76	76	83
25	83	32	53	710	1120	478	773	2090	376	78	69	84
26	86	32	82	638	986	38	767	2020	366	76	74	116
27	122	35	43	542	921	38	813	1990	302	71	74	103
28	106	45	36	542	975	45	896	2010	272	76	73	79
29	265	59	32	622	973	40	1050	1960	258	86	76	74
30	275	41	31	568	---	41	1180	1980	284	98	79	71
31	246	---	32	527	---	39	---	1990	---	106	78	---
TOTAL	2795	1780	1200	36267	25628	16586	10361	52350	30073	6128	2297	2540
MEAN	90.2	59.3	38.7	1170	884	535	345	1689	1002	198	74.1	84.7
MAX	275	217	82	8000	2890	890	1400	2220	2140	601	97	137
MIN	49	32	31	29	407	38	33	1140	258	65	54	68
AC-FT	5540	3530	2380	71940	50830	32900	20550	103800	59650	12150	4560	5040

CAL YR 1979 TOTAL 43981 MEAN 120 MAX 1430 MIN 26 AC-FT 87240
WTR YR 1980 TOTAL 188005 MEAN 514 MAX 8000 MIN 29 AC-FT 372900

10351700 TRUCKEE RIVER NEAR NIXON, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1960 to November 1961, May 1962 to current year.
CHEMICAL ANALYSES: January 1969 to December 1971 and January 1973 to current year, monthly.
SPECIFIC CONDUCTANCES: January to December 1969, monthly or more frequently; January 1970 to April 1980, monthly; May to September 1980, hourly.
BIOLOGICAL DATA: January 1973 to September 1977, monthly; October 1977 to current year, monthly (seasonal).
MICROBIOLOGICAL DATA: February 1973 to current year, monthly.
WATER TEMPERATURES: March 1960 to November 1961 and May 1962 to March 1965, monthly; April 1965 to June 1975, monthly or more frequently; July 1975 to April 1980, monthly; May to September 1980, hourly.
SEDIMENT DATA: December 1964 to June 1975, monthly or more frequently; July 1975 to current year, monthly.

COOPERATION.--Pesticide analyses by U.S. Environmental Protection Agency.

INSTRUMENTATION.--Specific-conductance and temperature recorder since May 1980.

REMARKS.--Specific-conductance and temperature recorder malfunctioned from June 11 to September 9.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 1,110 micromhos Nov. 18, 1977; minimum, 96 micromhos May 17, June 1, 1969.
PHYTOPLANKTON: Maximum, 31,000 cells/mL July 21, 1976, Aug. 10, 1978; minimum, 150 cells/mL May 12, 1980.
FECAL STREPTOCOCCI: Maximum, 5,300 colonies/100 mL Jan. 15, 1980; minimum, 2 colonies/100 mL Mar. 15, 1973, Dec. 11, 1974.
WATER TEMPERATURES: Maximum, 26.5°C Aug. 4, 1966; minimum, freezing point on Jan. 4, 1973, Dec. 15, 1975, Dec. 20, 1978.
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 2,530 mg/L Mar. 17, 1967; minimum, 2 mg/L several times during period of record.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS (MG/L AS CACO3)
NOV										
05...	1035	70	555	8.9	8.0	2.7	11.7	K2	40	140
28...	1115	60	815	8.4	2.0	1.8	12.0	K6	79	210
DEC										
28...	1200	36	797	8.6	3.0	2.7	12.0	K2	140	200
JAN										
15...	1240	4760	216	7.8	4.5	120	10.1	K1500	5300	46
FEB										
22...	1040	1780	233	--	5.0	44	10.8	<2	2300	59
APR										
02...	1120	433	290	8.7	7.0	4.4	11.9	K2	K7	70
MAY										
12...	1100	1440	141	7.5	8.5	8.8	9.5	52	93	40
JUN										
11...	1035	1050	152	8.0	14.5	14	8.2	1100	210	44
JUL										
09...	1055	340	287	8.4	19.0	5.4	8.8	53	40	76
AUG										
06...	1130	75	520	9.1	21.5	3.3	7.7	K26	<40	130
SEP										
09...	1035	140	411	7.9	18.0	7.8	7.8	--	92	120

DATE	TIME	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)
NOV									
05...	1035	33	14	58	2.1	5.7	100	12	102
28...	1115	49	21	88	2.7	7.6	150	6	133
DEC									
28...	1200	46	21	91	2.8	8.7	130	6	117
JAN									
15...	1240	12	3.9	25	1.6	4.2	62	0	51
FEB									
22...	1040	15	5.2	23	1.3	2.9	--	--	48
APR									
02...	1120	17	6.7	24	1.2	3.3	76	6	72
MAY									
12...	1100	10	3.7	11	.8	2.0	56	0	46
JUN									
11...	1035	11	4.1	12	.8	2.1	56	0	46
JUL									
09...	1055	19	6.9	26	1.3	4.0	90	1	75
AUG									
06...	1130	31	12	50	1.9	6.7	104	15	111
SEP									
09...	1035	28	11	37	1.5	5.9	120	0	98

K: NON-IDEAL COLONY COUNT.

10351700 TRUCKEE RIVER NEAR NIXON, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)
NOV 05...	1035	65	68	.1	15	318	322	60.1
28...	1115	130	120	.2	18	505	514	81.8
DEC 28...	1200	110	120	.2	21	483	489	46.9
JAN 15...	1240	23	17	.1	18	128	136	1650
FEB 22...	1040	22	21	.1	19	139	139	668
APR 02...	1120	28	29	.1	20	177	174	207
MAY 12...	1100	9.9	9.9	.1	19	108	95	420
JUN 11...	1035	9.9	11	.0	19	116	97	329
JUL 09...	1055	24	23	.2	25	185	176	170
AUG 06...	1130	52	65	.3	19	300	296	60.7
SEP 09...	1035	41	39	.1	20	244	238	92.2

DATE	TIME	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)
NOV 05...	1035	.22	.060	.33	.010	.010	.44	.46
28...	1115	.02	.010	.01	.120	.000	.29	--
DEC 28...	1200	.24	.020	.27	.040	.000	1.1	.81
JAN 15...	1240	.45	.040	.48	.140	.140	1.3	1.3
FEB 22...	1040	.36	.030	.37	.570	.570	.73	.39
APR 02...	1120	.43	.050	.47	.520	.550	.68	.65
MAY 12...	1100	.29	.030	.30	.070	.120	.41	.35
JUN 11...	1035	.13	.010	.14	.010	.000	.58	--
JUL 09...	1055	.67	.140	.76	.110	.040	.69	.53
AUG 06...	1130	.00	.000	.00	.000	.010	.69	.66
SEP 09...	1035	.46	.040	.50	.000	.010	.95	.73

DATE	TIME	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHOPH OSPHATE TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED (MG/L AS C)
NOV 05...	1035	.73	.80	.160	.140	--	--	--	7.9	--
28...	1115	.44	--	.070	.060	--	--	3.4	--	--
DEC 28...	1200	1.4	1.1	.090	.060	--	--	12	--	--
JAN 15...	1240	1.9	1.9	.420	.150	--	--	--	11	--
FEB 22...	1040	1.7	1.3	.300	.170	--	--	10	--	--
APR 02...	1120	1.7	1.7	.370	.360	--	--	--	5.4	--
MAY 12...	1100	.80	.77	.140	.150	--	--	2.4	--	--
JUN 11...	1035	.73	--	.150	.090	--	--	5.4	--	--
JUL 09...	1055	1.6	1.3	.490	.370	--	--	--	12	.4
AUG 06...	1130	.69	.67	.380	.340	.310	.220	8.9	--	--
SEP 09...	1035	1.5	1.2	.370	.320	.290	.310	6.1	--	--

10351700 TRUCKEE RIVER NEAR NIXON, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, TOTAL (UG/L AS BA)	BARIUM, DIS-SOLVED (UG/L AS BA)	CADMIUM TOTAL (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, TOTAL (UG/L AS CO)	COBALT, DIS-SOLVED (UG/L AS CO)
NOV											
05...	1035	11	9	200	60	0	1	0	0	0	<3
JAN											
15...	1240	21	15	200	30	1	2	10	0	9	<3
APR											
02...	1120	12	10	200	40	1	1	0	0	1	<3
JUL											
09...	1055	16	16	--	50	0	<1	20	10	2	<3

DATE	TIME	COPPER, TOTAL (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)
NOV							
05...	1035	0	0	380	30	2	0
JAN							
15...	1240	39	0	16000	150	24	2
APR							
02...	1120	13	5	320	40	8	2
JUL							
09...	1055	3	4	560	20	2	0

DATE	TIME	MANGA-NESE, TOTAL (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	NICKEL, TOTAL (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)
NOV							
05...	1035	90	70	.1	.1	2	0
JAN							
15...	1240	500	30	.3	.1	12	3
APR							
02...	1120	30	30	.1	.0	11	3
JUL							
09...	1055	50	20	.1	.0	2	3

DATE	TIME	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, TOTAL (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
NOV							
05...	1035	0	0	0	0	70	4
DEC							
28...	1200	--	--	0	--	--	--
JAN							
15...	1240	0	0	0	0	70	10
APR							
02...	1120	0	0	0	0	30	6
JUN							
11...	1035	--	--	0	--	--	--
JUL							
09...	1055	0	0	0	0	50	5
SEP							
09...	1035	--	--	0	--	--	--

10351700 TRUCKEE RIVER NEAR NIXON, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	PCB TOTAL (UG/L)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	CHLORDANE, TOTAL (UG/L)	CHLORDANE, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOTTOM MATERIAL (UG/KG)
NOV											
05...	1035	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB											
22...	1040	--	--	ND	--	ND	--	ND	--	ND	--
MAY											
12...	1100	ND	--	ND	--	ND	--	ND	--	ND	--
AUG											
06...	1130	ND	--	ND	--	ND	--	ND	--	ND	--

DATE	TIME	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOTTOM MATERIAL (UG/KG)	DIAZINON, TOTAL (UG/L)	DIAZINON, TOTAL IN BOTTOM MATERIAL (UG/KG)	DIELDRIN TOTAL (UG/L)	DIELDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ETHION, TOTAL (UG/L)	ETHION, TOTAL IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR, TOTAL (UG/L)
NOV												
05...	1035	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB												
22...	1040	ND	--	ND	--	ND	--	ND	--	ND	--	ND
MAY												
12...	1100	ND	--	ND	--	ND	--	ND	--	ND	--	ND
AUG												
06...	1130	ND	--	ND	--	ND	--	ND	--	ND	--	ND

DATE	TIME	HEPTACHLOR, TOTAL IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE TOTAL (UG/L)	HEPTACHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOTTOM MATERIAL (UG/KG)	MALATHION, TOTAL (UG/L)	MALATHION, TOTAL IN BOTTOM MATERIAL (UG/KG)	METHOXYCHLOR, TOTAL (UG/L)	METHOXYCHLOR, TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARATHION, TOTAL (UG/L)	METHYL PARATHION, TOT. IN BOTTOM MATL. (UG/KG)
NOV												
05...	1035	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB												
22...	1040	--	ND	--	ND	--	ND	--	ND	--	ND	--
MAY												
12...	1100	--	ND	--	ND	--	ND	--	ND	--	ND	--
AUG												
06...	1130	--	ND	--	ND	--	ND	--	ND	--	ND	--

DATE	TIME	METHYL TRITHION, TOTAL (UG/L)	METHYL TRITHION, TOT. IN BOTTOM MATL. (UG/KG)	PARATHION, TOTAL (UG/L)	PARATHION, TOTAL IN BOTTOM MATERIAL (UG/KG)	TOXAPHENE, TOTAL (UG/L)	TOXAPHENE, TOTAL IN BOTTOM MATERIAL (UG/KG)	TOTAL TRITHION (UG/L)	TRITHION, TOTAL IN BOTTOM MATERIAL (UG/KG)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
NOV												
05...	1035	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB												
22...	1040	ND	--	ND	--	ND	--	ND	--	--	--	--
MAY												
12...	1100	ND	--	ND	--	ND	--	ND	--	--	--	--
AUG												
06...	1130	ND	--	ND	--	ND	--	ND	--	--	--	--

ND: NONE DETECTED.

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE	NOV 28,79	APR 2,80	MAY 12,80	JUN 11,80
TIME	1115	1120	1100	1035
TOTAL CELLS/ML	1800	19000	150	270
DIVERSITY: DIVISION	0.7	0.5	0.4	0.9
.CLASS	0.7	0.5	0.4	0.9
..ORDER	0.0	0.7	0.4	1.7
...FAMILY	0.0	0.8	2.1	2.2
....GENUS	0.0	0.8	2.5	2.2

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...HYDRODICTYACEAE								
....PEDIASTRUM	52	3	--	-	--	-	--	-
...OOCYSTACEAE								
....ANKISTRODESMUS	*	0	--	-	13	8	--	-
....CHLORELLA	98	5	--	-	--	-	13	5
....OOCYSTIS	--	-	--	-	--	-	--	-
....SELENASTRUM	--	-	--	-	--	-	--	-
....TETRAEDRON	--	-	--	-	--	-	--	-
....TREUBARIA	--	-	--	-	--	-	--	-
...SCENEDESMACEAE								
....ACTINASTRUM	--	-	--	-	--	-	--	-
....SCENEDESMUS	98	5	--	-	--	-	51#	19
....TETRASTRUM	--	-	--	-	--	-	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CARTERIA	--	-	--	-	--	-	--	-
....CHLAMYDOMONAS	13	1	--	-	--	-	13	5
...PHACOTACEAE								
....PTEROMONAS	--	-	--	-	--	-	--	-
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	78	4	160	1	--	-	77#	29
....MELOSIRA	--	-	--	-	--	-	--	-
....STEPHANODISCUS	--	-	330	2	--	-	--	-
..PENNALES								
...ACHNANTHACEAE								
....COCCONEIS	*	0	--	-	--	-	--	-
...CYMBELLACEAE								
....CYMBELLA	--	-	--	-	--	-	--	-
....EPITHEMIA	26	1	--	-	--	-	--	-
...DIATOMACEAE								
....DIATOMA	180	10	--	-	--	-	--	-
...FRAGILARIACEAE								
....ASTERIONELLA	--	-	--	-	26#	17	--	-
....FRAGILARIA	1100#	59	--	-	--	-	--	-
....SYNEDRA	33	2	--	-	26#	17	--	-
...GOMPHONEMATACEAE								
....GOMPHONEMA	--	-	160	1	13	8	--	-
...NAVICULACEAE								
....NAVICULA	52	3	16000#	85	39#	25	26	10
...NITZSCHIACEAE								
....NITZSCHIA	72	4	160	1	39#	25	90#	33
CRYPTOPHYTA (CRYPTOMONADS)								
.CRYPTOPHYCEAE	13	1	--	-	--	-	--	-
..CRYPTOMONADALES								
...CRYPTOMONADACEAE								
....CRYPTOMONAS	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROOCOCCALES								
...CHROOCOCCACEAE								
....AGMENELLUM	--	-	--	-	--	-	--	-
....ANACYSTIS	--	-	2000	10	--	-	--	-
..HORMOGONALES								
...NOSTOCACEAE								
....ANABAENA	--	-	--	-	--	-	--	-
...OSCILLATORIACEAE								
....OSCILLATORIA	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

10351700 TRUCKEE RIVER NEAR NIXON, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE	JUL 9,80	AUG 6,80	SEP 9,80
TIME	1055	1130	1035
TOTAL CELLS/ML	700	10000	5200
DIVERSITY: DIVISION	0.9	1.4	1.3
.CLASS	0.9	1.4	1.3
..ORDER	1.7	1.9	1.8
...FAMILY	2.3	2.2	2.7
....GENUS	2.4	2.8	2.9

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)						
.CHLOROPHYCEAE						
..CHLOROCOCCALES						
...HYDRODICTYACEAE						
....PEDIASTRUM	--	-	240	2	720	14
...OOCYSTACEAE						
....ANKISTRODESMUS	13	2	180	2	81	2
....CHLORELLA	--	-	--	-	--	-
....OOCYSTIS	100	15	*	0	--	-
....SELENASTRUM	--	-	*	0	40	1
....TETRAEDRON	--	-	60	1	*	0
....TREUBARIA	--	-	*	0	--	-
....ACTINASTRUM	--	-	3200#	32	--	-
....SCENEDESMUS	52	7	880	9	2100#	41
....TETRASTRUM	--	-	160	2	--	-
..VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CARTERIA	13	2	--	-	--	-
....CHLAMYDOMONAS	26	4	420	4	180	3
...PHACOTACEAE						
....PTEROMONAS	--	-	*	0	--	-
CHRYSOPHYTA						
.BACILLARIOPHYCEAE						
..CENTRALES						
...COSCINODISCACEAE						
....CYCLOTELLA	320#	46	800	8	580	11
....MELOSIRA	--	-	100	1	280	5
....STEPHANODISCUS	--	-	--	-	--	-
..PENNALES						
...ACHNANTHACEAE						
....COCCONEIS	--	-	--	-	--	-
...CYMBELLACEAE						
....CYMBELLA	13	2	--	-	--	-
....EPITHEMIA	--	-	--	-	--	-
...DIATOMACEAE						
....DIATOMA	13	2	--	-	--	-
...FRAGILARIACEAE						
....ASTERIONELLA	--	-	--	-	--	-
....FRAGILARIA	--	-	--	-	200	4
....SYNEDRA	--	-	--	-	40	1
...GOMPHONEMATACEAE						
....GOMPHONEMA	--	-	--	-	--	-
...NAVICULACEAE						
....NAVICULA	39	6	--	-	160	3
...NITZSCHIACEAE						
....NITZSCHIA	100	15	120	1	320	6
CRYPTOPHYTA (CRYPTOMONADS)						
.CRYPTOPHYCEAE	--	-	--	-	--	-
..CRYPTOMONADALES						
...CRYPTOMONADACEAE						
....CRYPTOMONAS	--	-	*	0	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
.CYANOPHYCEAE						
..CHROOCOCCALES						
...CHROOCOCCACEAE						
....AGMENELLUM	--	-	80	1	81	2
....ANACYSTIS	--	-	3100#	30	120	2
..HORMOGONALES						
...NOSTOCACEAE						
....ANABAENA	--	-	--	-	220	4
...OSCILLATORIACEAE						
....OSCILLATORIA	--	-	680	7	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

10351700 TRUCKEE RIVER NEAR NIXON, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PERIPHYTON

RETRIEVAL DATE	LENGTH OF EXPOSURE POLYETHYLENE STRIP (DAYS)	BIOMASS (G/M^2) DRY WEIGHT	BIOMASS (G/M^2) ASH WEIGHT	CHLOROPHYLL A (MG/M^2)	CHLOROPHYLL B (MG/M^2)
Nov 28	23	32.5	30.6	5.46	1.49
Jun 11	30	16.8	14.0	15.3	3.46
Aug 6	28	21.8	14.7	18.1	5.88

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM
NOV							
05...	1035	70	32	6.0	--	--	--
28...	1115	60	8	1.3	--	--	--
DEC							
28...	1200	36	14	1.4	--	--	--
JAN							
15...	1240	4760	863	11100	26	34	41
FEB							
22...	1040	1780	175	841	--	--	--
APR							
02...	1120	433	7	8.2	--	--	--
MAY							
12...	1100	1440	52	202	--	--	--
JUN							
11...	1035	1050	60	170	--	--	--
JUL							
09...	1055	340	20	18	--	--	--
AUG							
06...	1130	75	12	2.4	--	--	--
SEP							
09...	1035	140	38	14	--	--	--

DATE	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM
NOV						
05...	--	--	--	--	--	--
28...	--	--	--	--	--	--
DEC						
28...	--	--	--	--	--	--
JAN						
15...	50	58	70	87	98	100
FEB						
22...	--	58	--	--	--	--
APR						
02...	--	--	--	--	--	--
MAY						
12...	--	--	--	--	--	--
JUN						
11...	--	--	--	--	--	--
JUL						
09...	--	--	--	--	--	--
AUG						
06...	--	--	--	--	--	--
SEP						
09...	--	--	--	--	--	--

10351700 TRUCKEE RIVER NEAR NIXON, NV--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1			---	---	131	122					---	---
2			---	---	136	126					---	---
3			---	---	130	124					---	---
4			---	---	130	124					---	---
5			---	---	129	123					---	---
6			---	---	134	128					---	---
7			---	---	136	127					---	---
8			---	---	140	133					---	---
9			---	---	143	137					411	381
10			---	---	154	142					418	379
11			---	---	---	---					476	421
12			---	---	---	---					489	478
13			---	---	---	---					510	488
14			---	---	---	---					514	502
15			---	---	---	---					524	512
16			148	135	---	---					527	519
17			133	128	---	---					543	521
18			131	125	---	---					548	540
19			127	122	---	---					546	533
20			127	119	---	---					533	522
21			121	114	---	---					525	516
22			122	112	---	---					520	511
23			115	111	---	---					515	495
24			119	111	---	---					491	479
25			120	115	---	---					487	464
26			126	118	---	---					459	407
27			128	124	---	---					441	408
28			127	123	---	---					480	444
29			125	123	---	---					508	481
30			158	122	---	---					518	507
31			132	124	---	---					---	---
MONTH			158	111	154	122					548	379

TEMPERATURE, WATER (DEG, C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1			---	---	14.0	11.5					---	---
2			---	---	12.0	10.5					---	---
3			---	---	13.5	10.0					---	---
4			---	---	13.0	10.5					---	---
5			---	---	13.5	10.5					---	---
6			---	---	14.5	10.0					---	---
7			---	---	---	---					---	---
8			---	---	---	---					---	---
9			---	---	14.5	---					21.0	18.0
10			---	---	14.0	---					20.0	17.5
11			---	---	---	---					21.0	16.0
12			---	---	---	---					20.5	17.5
13			---	---	---	---					20.0	16.0
14			---	---	---	---					17.0	14.0
15			---	---	---	---					18.5	15.0
16			16.0	---	---	---					19.5	15.0
17			16.5	6.0	---	---					20.0	16.5
18			17.0	6.5	---	---					19.0	17.0
19			17.5	5.5	---	---					19.0	14.5
20			18.0	5.5	---	---					18.0	15.5
21			17.0	5.0	---	---					18.0	14.0
22			16.5	5.5	---	---					18.5	14.0
23			13.0	9.5	---	---					18.5	14.0
24			11.0	8.5	---	---					18.5	14.0
25			11.5	8.5	---	---					18.5	15.0
26			13.0	8.5	---	---					19.0	15.5
27			14.0	10.0	---	---					19.0	15.0
28			15.0	---	---	---					18.5	15.5
29			16.0	11.5	---	---					18.0	14.0
30			14.5	12.0	---	---					18.5	14.5
31			15.0	12.0	---	---					---	---
MONTH			18.0	5.0	14.5	10.0					21.0	14.0

10352500 McDERMITT CREEK NEAR McDERMITT, NV

LOCATION.--Lat 41°58'00", long 117°50'01", in SE¼SE¼ sec.8, T.47 N., R.37 E., Humboldt County, Hydrologic Unit 16040201, on right bank at mouth of canyon, 6.5 mi (10.5 km) southwest of McDermitt.

DRAINAGE AREA.--225 mi^2 (583 km^2).

PERIOD OF RECORD.--October 1948 to current year.

REVISED RECORDS.--WSP 1214: 1949-50 (P).

GAGE.--Water-stage recorder. Altitude of gage is 4,545 ft (1,385 m) from topographic map. Prior to May 11, 1972, at site approximately 300 ft (91 m) downstream on left bank at same datum.

REMARKS.--Records fair except those for winter months and periods of no gage-height record, Nov. 9 to Jan. 23 and July 13 to Sept. 22, which are poor. One diversion for about 1,500 acres (6.07 km^2) above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--32 years, 30.3 ft^3/s (0.858 m^3/s), 21,950 acre-ft/yr (27.1 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,970 ft^3/s (112 m^3/s) about Feb. 1, 1963, gage height, 8.64 ft (2.634 m), in gage well, from rating curve extended above 250 ft^3/s (7.08 m^3/s) on basis of slope-area measurement of peak flow; no flow for several days in some years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 150 ft^3/s (4.25 m^3/s) and maximum (*).

Date	Time	Discharge (ft^3/s)	(m^3/s)	Gage height (ft)	(m)
Jan. 15	unknown	*720	20.4	4.50	1.372
Feb. 18	1000	668	18.9	4.37	1.332
Apr. 24	0600	224	6.34	2.94	0.896

Minimum daily discharge, 2.3 ft^3/s (0.065 m^3/s) Oct. 5, 6, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	4.8	7.0	7.6	11	78	39	119	55	18	5.8	4.9
2	2.5	4.8	7.2	7.4	11	78	35	124	55	19	5.5	4.9
3	2.4	5.5	7.7	7.0	10	78	35	136	54	20	5.3	4.9
4	2.4	6.6	7.8	7.2	10	83	34	128	57	18	5.2	4.7
5	2.3	6.3	7.5	7.2	10	90	43	130	49	18	5.2	4.5
6	2.3	6.3	7.0	7.0	11	84	46	116	44	18	5.0	4.4
7	2.5	6.6	7.0	6.2	12	78	36	105	40	17	5.0	4.3
8	2.5	6.9	7.0	7.0	11	73	39	110	35	17	4.8	4.2
9	2.3	6.9	7.2	7.5	11	67	48	130	32	16	4.7	4.2
10	2.5	6.4	7.0	7.4	12	67	54	137	29	16	4.6	6.5
11	2.5	6.6	5.0	6.5	11	76	54	113	29	16	4.5	6.0
12	2.5	6.5	5.7	30	12	60	63	108	29	15	4.5	5.5
13	2.6	6.2	6.3	80	13	62	78	93	36	14	4.5	7.7
14	2.9	6.6	6.6	500	14	60	110	96	38	13	4.8	6.8
15	3.1	6.6	7.0	120	22	59	137	111	34	12	5.4	6.4
16	3.1	6.7	6.5	90	46	47	131	81	29	11	5.4	6.0
17	3.1	6.9	6.2	75	59	51	145	71	26	9.5	5.2	5.7
18	3.2	6.8	6.3	90	419	53	167	69	25	9.0	5.5	5.5
19	3.8	6.2	6.5	70	271	47	183	68	28	8.5	5.7	5.5
20	4.2	5.5	6.8	45	204	48	191	67	24	8.0	5.2	7.0
21	4.2	4.8	6.8	30	130	46	199	67	22	7.5	5.0	6.5
22	4.2	5.8	7.0	25	103	48	164	67	20	7.5	5.0	6.0
23	4.1	6.4	6.0	19	80	47	179	70	20	7.0	5.2	5.5
24	4.2	7.0	5.4	17	71	45	202	72	21	7.0	4.8	5.1
25	4.2	7.0	7.2	15	69	38	176	69	22	6.5	4.6	5.0
26	4.5	6.8	7.5	13	73	42	152	68	21	6.0	4.6	4.8
27	4.5	6.2	7.4	12	100	42	144	62	20	5.7	4.5	4.6
28	4.3	5.5	5.8	11	101	35	144	55	19	5.6	4.5	4.4
29	4.1	6.3	6.3	10	86	37	139	49	18	6.0	4.7	4.2
30	4.1	6.6	6.8	9.0	---	39	132	53	18	6.5	5.0	4.3
31	4.5	---	7.2	10	---	35	---	67	---	6.0	5.0	---
TOTAL	102.1	188.1	208.7	1349.0	1993	1793	3299	2811	949	364.3	154.7	160.0
MEAN	3.29	6.27	6.73	43.5	68.7	57.8	110	90.7	31.6	11.8	4.99	5.33
MAX	4.5	7.0	7.8	500	419	90	202	137	57	20	5.8	7.7
MIN	2.3	4.8	5.0	6.2	10	35	34	49	18	5.6	4.5	4.2
AC-FT	203	373	414	2680	3950	3560	6540	5580	1880	723	307	317

CAL YR 1979 TOTAL 7471.90 MEAN 20.5 MAX 154 MIN .90 AC-FT 14820
WTR YR 1980 TOTAL 13371.90 MEAN 36.5 MAX 500 MIN 2.3 AC-FT 26520

10353000 EAST FORK QUINN RIVER NEAR McDERMITT, NV

LOCATION.--Lat 41°59'00", long 117°35'00", in sec.9, T.47 N., R.39 E., Humboldt County, Hydrologic Unit 16040201, in Fort McDermitt Indian Reservation, on right bank 1 mi (2 km) downstream from South Fork and 7 mi (11 km) east of McDermitt.

DRAINAGE AREA.--140 mi^2 (363 km^2), approximately.

PERIOD OF RECORD.--October 1948 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,700 ft (1,433 m), from topographic map.

REMARKS.--Records good. No diversion above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--32 years, 26.5 ft^3/s (0.748 m^3/s), 19,200 acre-ft/yr (23.7 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,270 ft^3/s (36.0 m^3/s) Jan. 15, 1956, gage height, 8.52 ft (2.597 m); minimum, 0.10 ft^3/s (0.003 m^3/s) Sept. 6, 7, 1955.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 100 ft^3/s (2.83 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 13	2100	298	8.44	4.49	1.369
Feb. 18	1800	*383	10.8	5.04	1.536
Apr. 17	2000	359	10.2	4.89	1.490

Minimum discharge, 2.0 ft^3/s (0.057 m^3/s) Aug. 12, Sept. 5, 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	3.9	5.0	5.5	19	50	31	90	25	7.0	2.9	2.4
2	2.6	3.9	5.3	5.0	18	48	29	85	26	7.0	2.7	2.4
3	2.5	4.2	5.7	5.3	18	48	29	95	26	7.2	2.6	2.4
4	2.6	4.5	5.7	5.2	18	61	31	90	25	6.4	2.6	2.3
5	2.7	4.6	5.5	5.2	17	66	34	92	24	6.0	2.6	2.2
6	2.7	4.6	5.2	4.8	19	59	33	80	22	5.8	2.5	2.1
7	2.6	4.8	5.2	4.0	17	55	30	70	20	5.7	2.5	2.2
8	2.6	5.0	5.0	5.3	16	51	34	65	19	5.5	2.4	2.2
9	2.6	5.0	5.2	5.5	15	47	47	66	17	5.2	2.3	2.0
10	2.6	4.6	5.0	5.2	15	50	52	75	16	5.2	2.3	2.7
11	2.6	4.8	3.3	4.3	15	50	46	70	15	5.0	2.2	3.3
12	2.6	4.5	4.0	9.5	14	42	61	65	14	4.8	2.2	2.9
13	2.6	4.6	4.5	71	15	44	95	55	15	4.8	2.2	3.9
14	2.6	4.8	4.8	222	14	45	154	50	15	4.8	2.3	3.4
15	2.9	4.8	5.0	123	16	50	206	56	13	4.7	2.6	3.2
16	2.9	5.0	4.6	74	17	39	217	48	12	4.4	2.6	3.0
17	2.8	5.2	4.5	82	21	38	268	43	11	4.1	2.5	2.9
18	2.9	5.2	4.5	61	276	41	276	39	10	4.1	2.6	2.8
19	3.2	4.2	4.8	46	206	37	276	34	11	4.1	2.8	2.9
20	4.2	3.9	5.0	38	117	39	254	31	9.8	4.0	2.6	3.2
21	3.7	3.1	5.2	35	78	41	215	28	9.0	3.7	2.4	3.5
22	3.6	4.2	5.2	32	62	39	179	26	8.5	3.5	2.4	3.3
23	3.5	4.3	3.5	30	51	42	150	28	9.0	3.5	2.5	3.2
24	3.6	5.2	4.6	29	46	38	160	27	8.8	3.4	2.4	3.0
25	3.6	5.2	5.3	27	41	33	135	28	7.8	3.3	2.3	3.0
26	3.6	5.0	4.6	23	52	32	110	29	7.6	2.9	2.3	2.9
27	3.5	3.9	4.3	23	58	31	100	26	7.6	2.9	2.2	2.9
28	3.5	4.3	4.0	20	55	29	100	24	7.2	2.8	2.2	2.9
29	3.5	4.5	4.6	19	54	27	110	22	7.0	3.0	2.3	2.8
30	3.5	4.8	4.8	18	---	31	100	25	7.2	3.2	2.5	2.9
31	3.9	---	5.3	19	---	31	---	29	---	2.9	2.5	---
TOTAL	94.9	136.6	149.2	1056.8	1380	1334	3562	1591	425.5	140.9	76.0	84.8
MEAN	3.06	4.55	4.81	34.1	47.6	43.0	119	51.3	14.2	4.55	2.45	2.83
MAX	4.2	5.2	5.7	222	276	66	276	95	26	7.2	2.9	3.9
MIN	2.5	3.1	3.3	4.0	14	27	29	22	7.0	2.8	2.2	2.0
AC-FT	188	271	296	2100	2740	2650	7070	3160	844	279	151	168

CAL YR 1979 TOTAL 8403.0 MEAN 23.0 MAX 227 MIN 1.0 AC-FT 16670
WTR YR 1980 TOTAL 10031.7 MEAN 27.4 MAX 276 MIN 2.0 AC-FT 19900

10353500 QUINN RIVER NEAR McDERMITT, NV
(National stream-quality accounting network station)

LOCATION.--Lat 41°46'30", long 117°48'15", in SW¼ sec.15, T.45 N., R.37 E., Humboldt County, Hydrologic Unit 16040201, on left bank 1.5 mi (2.4 km) upstream from Flat Creek and 15.5 mi (24.9 km) south of McDermitt.

DRAINAGE AREA.--1,100 mi^2 (2,849 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1948 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,240 ft (1,292 m), from river-profile map.

REMARKS.--Records fair. Several diversions for irrigation above station.

AVERAGE DISCHARGE.--32 years, 34.5 ft^3/s (0.977 m^3/s), 25,000 acre-ft/yr (30.8 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,580 ft^3/s (44.7 m^3/s) Apr. 27, 1952, gage height, 8.39 ft (2.557 m); no flow for some days in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 312 ft^3/s (8.84 m^3/s) Apr. 23, gage height, 3.36 ft (1.024 m); minimum daily, 0.34 ft^3/s (0.010 m^3/s) Oct. 16, 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.50	.50	.66	.66	15	121	41	163	84	5.1	1.3	.99
2	.50	.49	.66	.66	15	115	11	152	102	5.0	1.3	1.0
3	.50	.50	.66	.66	15	110	6.0	122	140	4.9	1.3	1.1
4	.50	.50	.66	.66	15	117	5.4	136	121	4.6	1.3	1.0
5	.50	.50	.66	.66	15	128	4.9	149	105	4.2	1.3	1.0
6	.50	.50	.66	.66	15	136	5.6	152	98	3.8	1.2	1.0
7	.44	.50	.66	.66	15	135	6.5	128	85	3.5	1.2	1.0
8	.44	.50	.66	.66	15	121	7.3	102	72	2.9	1.1	1.0
9	.44	.50	.58	.81	15	108	7.4	152	59	2.7	1.1	1.0
10	.44	.58	.58	.81	15	96	7.5	166	48	2.5	1.1	1.2
11	.44	.52	.58	.81	15	99	8.3	153	39	2.4	1.1	1.0
12	.38	.50	.58	11	15	99	9.8	184	33	2.2	1.1	1.0
13	.38	.50	.58	21	15	99	12	201	30	2.2	1.1	.98
14	.38	.50	.58	49	14	91	25	190	33	2.1	1.1	.97
15	.38	.50	.58	187	15	87	62	182	31	2.1	1.1	.97
16	.34	.50	.58	139	17	83	126	147	25	1.9	1.1	.97
17	.34	.50	.58	92	20	79	166	144	22	1.8	1.1	.97
18	.41	.50	.58	84	43	82	210	129	20	1.7	1.1	.96
19	.59	.50	.58	81	234	84	260	107	17	1.6	1.1	.96
20	.66	.50	.58	70	286	80	266	88	15	1.6	1.1	.96
21	.60	.51	.58	63	231	83	288	72	12	1.5	1.0	.89
22	.58	.52	.58	55	173	83	295	60	11	1.4	1.0	.89
23	.58	.55	.58	53	140	81	306	54	9.3	1.4	1.0	.89
24	.50	.60	.81	43	116	70	287	55	8.4	1.3	1.0	.89
25	.50	.66	.89	35	105	63	281	59	7.7	1.3	1.0	.89
26	.50	.66	.73	25	95	58	262	71	6.8	1.2	1.0	.89
27	.50	.66	.73	23	105	53	226	74	6.1	1.2	.96	.89
28	.50	.66	.66	19	117	51	205	69	6.5	1.2	.95	.81
29	.50	.66	.66	17	122	46	197	72	5.6	1.2	.97	.81
30	.50	.66	.66	15	---	42	168	77	5.2	1.2	.97	.81
31	.50	---	.66	15	---	42	---	80	---	1.2	.98	---
TOTAL	14.82	16.23	19.78	1104.71	2028	2742	3762.7	3690	1257.6	72.9	34.03	28.69
MEAN	.48	.54	.64	35.6	69.9	88.5	125	119	41.9	2.35	1.10	.96
MAX	.66	.66	.89	187	286	136	306	201	140	5.1	1.3	1.2
MIN	.34	.49	.58	.66	14	42	4.9	54	5.2	1.2	.95	.81
AC-FT	29	32	39	2190	4020	5440	7460	7320	2490	145	67	57

CAL YR 1979 TOTAL 7846.97 MEAN 21.5 MAX 169 MIN .30 AC-FT 15560
WTR YR 1980 TOTAL 14771.46 MEAN 40.4 MAX 306 MIN .34 AC-FT 29300

BEST DOCUMENT AVAILABLE

10353500 QUINN RIVER NEAR McDERMITT, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1949 to October 1951, April 1952, November 1961 to current year.
CHEMICAL ANALYSES, AND MICROBIOLOGICAL AND SEDIMENT DATA: November 1977 to current year, monthly.
SPECIFIC CONDUCTANCES: April 1977 to July 1980, monthly; August and September 1980, hourly.
BIOLOGICAL DATA: November 1977 to current year, monthly (seasonal).
WATER TEMPERATURES: July 1949 to October 1951, April 1952, and November 1961 to July 1980, monthly; August and September 1980, hourly.

INSTRUMENTATION.--Specific-conductance and temperature recorder since August 1980.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 763 micromhos Apr. 26, 1977; minimum, 313 micromhos Feb. 27, 1980.
PHYTOPLANKTON: Maximum, 51,000 cells/mL July 12, 1978; minimum, 100 cells/mL May 28, 1980.
FECAL STREPTOCOCCI: Maximum, 3,000 colonies/100 mL (non-ideal colony count) Dec. 29, 1978; minimum, 10 colonies/100 mL (non-ideal colony count) Sept. 20, 1978.
WATER TEMPERATURES: Maximum, 28.0°C July 24, 1979; minimum, freezing point on some days during winter months of most years.
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 476 mg/L Feb. 27, 1980; minimum, 2 mg/L Oct. 25, 1978.

EXTREMES FOR CURRENT YEAR (MEASUREMENTS AT LEAST ONCE-DAILY).--
SPECIFIC CONDUCTANCES: Maximum, presumably not measured (see "Period of Record"); minimum, presumably not measured (see "Period of Record").
WATER TEMPERATURES: Maximum, 27.0°C on several days in August; minimum, presumably not measured (see "Period of Record").

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, WATER (DEG C)	TUP-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)
OCT 29...	1540	.53	682	8.7	9.0	2.0	11.5	K7	K24	110
NOV 29...	1430	.65	--	8.3	2.0	2.4	12.4	K18	40	120
DEC 27...	1410	.67	--	8.6	2.0	1.2	13.2	K22	44	120
JAN 28...	1600	20	--	7.6	.0	32	12.0	K2	K60	84
FEB 27...	1110	117	313	8.2	7.5	72	9.8	K15	K65	76
MAR 26...	1055	58	379	8.4	5.0	2.1	10.8	K9	99	90
APR 28...	1400	206	442	8.2	16.5	32	7.8	K10	90	120
MAY 28...	1040	71	559	8.5	13.0	12	8.6	K34	180	160
JUN 30...	1400	5.4	540	8.9	20.5	3.1	10.2	K7	120	120
JUL 31...	1235	1.2	640	8.3	19.0	1.7	9.6	71	82	110
AUG 27...	1415	.97	641	8.2	21.0	--	12.2	K23	K24	110
SEP 25...	1400	.88	660	7.9	18.0	1.8	11.1	94	K20	110

K: NON-IDEAL COLONY COUNT.

10353500 QUINN RIVER NEAR McDERMITT, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)
OCT 29...	1540	31	8.5	110	4.5	8.3	200	13	190
NOV 29...	1430	32	8.6	100	4.1	8.7	230	--	190
DEC 27...	1410	32	8.6	93	3.8	7.9	180	8	160
JAN 28...	1600	23	6.5	41	1.9	6.3	140	0	120
FEB 27...	1110	20	6.3	35	1.7	5.5	140	0	120
MAR 26...	1055	24	7.3	46	2.1	5.3	160	2	140
APR 28...	1400	33	9.9	47	1.8	7.0	210	0	170
MAY 28...	1040	41	13	65	2.3	7.0	--	--	230
JUN 30...	1400	30	11	71	2.8	7.7	210	18	200
JUL 31...	1235	30	8.5	95	3.9	9.5	230	0	190
AUG 27...	1415	30	8.4	95	4.0	8.2	240	0	200
SEP 25...	1400	31	8.8	100	4.1	8.6	220	0	180

DATE	TIME	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)
OCT 29...	1540	85	48	1.8	52	449	456	.64
NOV 29...	1430	78	56	1.7	57	460	456	.81
DEC 27...	1410	85	46	1.7	55	437	426	.79
JAN 28...	1600	34	22	.8	42	248	247	13.4
FEB 27...	1110	27	14	.9	36	208	214	65.7
MAR 26...	1055	28	16	.9	40	261	250	40.9
APR 28...	1400	40	15	1.1	46	290	302	161
MAY 28...	1040	57	23	1.2	48	385	394	73.8
JUN 30...	1400	42	29	1.4	43	363	361	5.29
JUL 31...	1235	74	42	1.6	53	423	427	1.37
AUG 27...	1415	78	45	1.6	51	432	431	1.13
SEP 25...	1400	83	55	1.6	53	409	449	.97

10353500 QUINN RIVER NEAR McDERMITT, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)
OCT								
29...	1540	.00	.020	.03	.010	.010	.38	.34
NOV								
29...	1430	--	--	.08	.010	.010	.41	.29
DEC								
27...	1410	.04	.010	.00	.020	.000	.79	.82
JAN								
28...	1600	--	.010	--	.070	--	.90	--
FEB								
27...	1110	.04	.020	.06	.040	.000	.56	.53
MAR								
26...	1055	.00	.010	.01	.030	.030	.64	.60
APR								
28...	1400	.00	.000	.03	.010	.000	.86	.82
MAY								
28...	1040	.00	.010	.01	.040	.010	.73	.55
JUN								
30...	1400	.00	.000	.00	.000	.000	--	.68
JUL								
31...	1235	.00	.010	.02	.010	.020	.50	--
AUG								
27...	1415	.00	.010	.00	.080	.030	--	.73
SEP								
25...	1400	.00	.000	.00	.000	.000	.86	.76

DATE	TIME	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED (MG/L AS C)
OCT								
29...	1540	.40	.38	.080	.080	--	15	.0
NOV								
29...	1430	--	.38	.130	.100	9.1	--	--
DEC								
27...	1410	.86	.82	.100	.080	--	--	--
JAN								
28...	1600	--	--	.170	.110	--	3.3	.9
FEB								
27...	1110	.66	.59	.260	.050	12	--	--
MAR								
26...	1055	.68	.64	.130	.080	13	--	--
APR								
28...	1400	.87	.85	.210	.100	--	13	.4
MAY								
28...	1040	.78	.57	.070	.050	14	--	--
JUN								
30...	1400	--	.68	.050	.040	8.1	--	--
JUL								
31...	1235	.52	--	.080	.080	--	5.5	.5
AUG								
27...	1415	--	.76	.150	.110	2.5	--	--
SEP								
25...	1400	.86	.76	--	.080	2.1	--	--

10353500 QUINN RIVER NEAR McDERMITT, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, TOTAL (UG/L AS BA)	BARIUM, DIS-SOLVED (UG/L AS BA)	CADMIUM TOTAL (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, TOTAL (UG/L AS CO)	COBALT, DIS-SOLVED (UG/L AS CO)
OCT 29...	1540	19	18	200	50	0	<1	0	0	0	<3
JAN 28...	1600	11	11	200	60	0	<1	0	0	5	<3
APR 28...	1400	17	15	200	40	1	<1	0	0	1	<3
JUL 31...	1235	18	18	100	50	0	<1	0	0	2	<3

DATE	TIME	COPPER, TOTAL (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)
OCT 29...	1540	0	0	250	10	1	0
JAN 28...	1600	15	7	2800	400	4	4
APR 28...	1400	11	2	5100	110	3	0
JUL 31...	1235	3	0	270	<10	1	0

DATE	TIME	MANGA-NESE, TOTAL (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	NICKEL, TOTAL (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)
OCT 29...	1540	80	70	.1	.0	2	0
JAN 28...	1600	70	20	.1	.1	5	0
APR 28...	1400	150	10	.1	.1	6	3
JUL 31...	1235	120	30	.0	.0	0	0

DATE	TIME	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, TOTAL (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT 29...	1540	0	0	0	0	10	<3
DEC 27...	1410	--	--	0	--	--	--
JAN 28...	1600	0	0	1	0	30	--
MAR 26...	1055	--	--	0	--	--	--
APR 28...	1400	0	0	0	0	30	<3
JUN 30...	1400	--	--	0	--	--	--
JUL 31...	1235	1	1	0	0	20	<3
SEP 25...	1400	--	--	0	--	--	--

10353500 QUINN RIVER NEAR MC DERMITT, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE	NOV 29,79	MAR 26,80	MAY 28,80	JUN 30,80
TIME	1430	1055	1040	1400
TOTAL CELLS/ML	650	1800	100	1800
DIVERSITY: DIVISION	0.7	1.0	0.0	1.5
.CLASS	0.7	1.0	0.0	1.5
..ORDER	1.0	1.0	0.5	1.9
...FAMILY	2.7	1.9	0.5	2.4
....GENUS	2.8	2.0	0.5	2.7

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...COELASTRACEAE								
....COELASTRUM	--	-	--	-	--	-	--	-
...HYDRODICTYACEAE								
....PEDIASTRUM	55	9	--	-	--	-	--	-
...MICRACTINIACEAE								
....MICRACTINIUM	--	-	--	-	--	-	--	-
...OOCYSTACEAE								
....ANKISTRODESMUS	10	2	--	-	--	-	100	6
....DICTYOSPHAERIUM	--	-	--	-	--	-	700#	38
....OOCYSTIS	--	-	--	-	--	-	--	-
....SELENASTRUM	--	-	--	-	--	-	13	1
....TETRAEDRON	--	-	--	-	--	-	--	-
...SCENEDESMACEAE								
....ACTINASTRUM	--	-	--	-	--	-	--	-
....SCENEDESMUS	61	9	--	-	--	-	52	3
....TETRASTRUM	--	-	--	-	--	-	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CARTERIA	--	-	--	-	--	-	--	-
....CHLAMYDOMONAS	10	2	--	-	--	-	13	1
....CHLOROGONIUM	--	-	--	-	--	-	--	-
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	25	4	14	1	13	13	140	8
....MELOSIRA	--	-	--	-	--	-	13	1
..PENNALES								
...ACHNANTHACEAE								
....COCCONEIS	20	3	--	-	--	-	--	-
....RHOICOSPHENIA	--	-	27	1	--	-	--	-
...CYMBELLACEAE								
....AMPHORA	--	-	--	-	--	-	--	-
....CYMBELLA	10	2	14	1	--	-	--	-
....EPITHEMIA	5	1	14	1	--	-	52	3
...DIATOMACEAE								
....DIATOMA	--	-	--	-	--	-	26	1
...FRAGILARIACEAE								
....FRAGILARIA	30	5	14	1	--	-	--	-
....SYNEDRA	10	2	250	13	--	-	--	-
...GOMPHONEMATACEAE								
....GOMPHONEMA	15	2	82	4	--	-	13	1
...NAVICULACEAE								
....CALONEIS	--	-	14	1	--	-	--	-
....GYROSIGMA	--	-	--	-	--	-	--	-
....NAVICULA	210#	33	14	1	--	-	--	-
....PINNULARIA	--	-	--	-	--	-	--	-
...NITZSCHIACEAE								
....DENTICULA	--	-	--	-	--	-	--	-
....HANTZSCHIA	--	-	14	1	--	-	--	-
....NITZSCHIA	180#	28	330#	18	90#	88	440#	24
...SURIRELLACEAE								
....SURIRELLA	--	-	14	1	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)								
.CRYPTOPHYCEAE								
..CRYPTOMONADALES								
...CRYPTOMONADACEAE								
....CRYPTOMONAS	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROOCOCCALES								
...CHROOCOCCACEAE								
....ANACYSTIS	--	-	--	-	--	-	--	-
..HORMOGONALES								
...NOSTOCACEAE								
....ANABAENA	--	-	--	-	--	-	39	2
...OSCILLATORIACEAE								
....OSCILLATORIA	--	-	1000#	57	--	-	210	11

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980 (CONTINUED)

DATE	NOV 29,79		MAR 26,80		MAY 28,80		JUN 30,80	
TIME	1430		1055		1040		1400	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
EUGLENOPHYTA (EUGLENOIDS)								
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....EUGLENA	--	-	--	-	--	-	13	1
....PHACUS	--	-	--	-	--	-	--	-
....TRACHELOMONAS	--	-	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)								
.DINOPHYCEAE								
..PERIDINIALES								
...GLENODINIACEAE								
....GLENODINIUM	--	-	--	-	--	-	13	1

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

10353500 QUINN RIVER NEAR McDERMITT, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE	JUL 31,80	AUG 27,80	SEP 25,80
TIME	1235	1415	1400
TOTAL CELLS/ML	2500	970	460
DIVERSITY: DIVISION	1.4	1.6	0.6
.CLASS	1.4	1.6	0.6
..ORDER	2.2	2.2	1.0
...FAMILY	2.9	3.3	2.6
....GENUS	3.2	3.9	2.6

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)						
.CHLOROPHYCEAE						
..CHLOROCOCCALES						
...COELASTRACEAE						
....COELASTRUM	100	4	--	-	--	-
...HYDRODICTYACEAE						
....PEDIASTRUM	--	-	--	-	--	-
...MICRACTINIACEAE						
....MICRACTINIUM	--	-	52	5	--	-
...OOCYSTACEAE						
....ANKISTRODESMUS	34	1	13	1	26	6
....DICTYOSPHAERIUM	--	-	--	-	--	-
....OOCYSTIS	17	1	--	-	--	-
....SELENASTRUM	--	-	--	-	--	-
....TETRAEDRON	34	1	--	-	--	-
...SCENEDESMACEAE						
....ACTINASTRUM	--	-	52	5	--	-
....SCENEDESMUS	300	12	52	5	--	-
....TETRASTRUM	--	-	52	5	--	-
..VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CARTERIA	17	1	--	-	--	-
....CHLAMYDOMONAS	100	4	13	1	39	8
....CHLOROGONIUM	50	2	--	-	--	-
CHRYSOPHYTA						
.BACILLARIOPHYCEAE						
..CENTRALES						
...COSCINODISCACEAE						
....CYCLOTELLA	890#	36	150#	16	26	6
....MELOSIRA	--	-	--	-	--	-
..PENNALES						
...ACHNANTHACEAE						
....COCCONEIS	100	4	64	7	26	6
....RHOICOSPHENIA	--	-	--	-	--	-
...CYMBELLACEAE						
....AMPHORA	--	-	13	1	--	-
....CYMBELLA	--	-	52	5	170#	36
....EPITHEMIA	--	-	13	1	--	-
...DIATOMACEAE						
....DIATOMA	--	-	--	-	--	-
...FRAGILARIACEAE						
....FRAGILARIA	350	14	--	-	13	3
....SYNEDRA	34	1	13	1	--	-
...GOMPHONEMATACEAE						
....GOMPHONEMA	--	-	13	1	13	3
...NAVICULACEAE						
....CALONEIS	--	-	--	-	--	-
....GYROSIGMA	17	1	26	3	--	-
....NAVICULA	--	-	39	4	52	11
....PINNULARIA	--	-	13	1	--	-
...NITZSCHIACEAE						
....DENTICULA	--	-	13	1	--	-
....HANTZSCHIA	--	-	--	-	--	-
....NITZSCHIA	220	9	120	12	100#	22
...SURIRELLACEAE						
....SURIRELLA	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)						
.CRYPTOPHYCEAE						
..CRYPTOMONADALES						
...CRYPTOMONADACEAE						
....CRYPTOMONAS	17	1	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
.CYANOPHYCEAE						
..CHROOCOCCALES						
...CHROOCOCCACEAE						
....ANACYSTIS	100	4	13	1	--	-
..HORMOGONALES						
...NOSTOCACEAE						
....ANABAENA	--	-	140	15	--	-
...OSCILLATORIACEAE						
....OSCILLATORIA	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

10353500 QUINN RIVER NEAR McDERMITT, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980 (CONTINUED)

DATE	JUL 31,80		AUG 27,80		SEP 25,80	
TIME	1235		1415		1400	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
EUGLENOPHYTA (EUGLENOIDS)						
.EUGLENOPHYCEAE						
..EUGLENALES						
...EUGLENACEAE						
....EUGLENA	34	1	39	4	--	-
....PHACUS	17	1	--	-	--	-
....TRACHELOMONAS	50	2	13	1	--	-
PYRRHOPHYTA (FIRE ALGAE)						
.DINOPHYCEAE						
..PERIDINIALES						
...GLENODINIACEAE						
....GLENODINIUM	17	1	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

PERIPHYTON

RETRIEVAL DATE	LENGTH OF EXPOSURE POLYETHYLENE STRIP (DAYS)	BIOMASS (G/M^2)		CHLOROPHYLL A (MG/M^2)	CHLOROPHYLL B (MG/M^2)
		DRY WEIGHT	ASH WEIGHT		
May 28	30	8.50	7.87	.520	.050
Aug 27	27	15.0	12.0	4.24	.950

BEST DOCUMENT AVAILABLE

10353500 QUINN RIVER NEAR McDERMITT, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT					
29...	1540	.53	7	.01	--
NOV					
29...	1430	.65	14	.02	--
DEC					
27...	1410	.67	39	.07	--
JAN					
28...	1600	20	92	5.0	--
FEB					
27...	1110	117	476	150	83
MAR					
26...	1055	58	62	9.7	--
APR					
28...	1400	206	226	126	35
MAY					
28...	1040	71	19	3.6	--
JUN					
30...	1400	5.4	8	.12	--
AUG					
27...	1415	.97	9	.02	--
SEP					
25...	1400	.88	10	.02	--

10353500 QUINN RIVER NEAR McDERMITT, NV--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1									628	616	636	618
2									625	618	647	619
3									629	619	645	608
4									627	622	650	627
5									627	621	651	629
6									624	619	652	639
7									625	619	654	640
8									628	622	646	637
9									636	626	647	643
10									642	630	647	616
11									643	624	646	628
12									643	628	677	614
13									644	632	645	612
14									643	631	652	634
15									643	637	660	645
16									645	632	661	644
17									644	630	661	655
18									644	622	662	653
19									640	619	664	654
20									643	622	660	648
21									644	631	671	649
22									644	634	679	655
23									641	634	689	658
24									642	634	683	660
25									645	630	667	661
26									644	637	636	634
27									646	621	639	635
28									629	626	640	638
29									630	624	639	629
30									632	628	642	620
31									636	621	---	---
MONTH									646	616	689	220

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1									27.0	15.0	20.5	9.5
2									26.5	14.5	20.5	10.0
3									25.5	15.0	22.5	11.0
4									25.0	12.0	22.5	11.5
5									26.0	14.0	22.5	12.0
6									26.0	14.0	22.0	13.5
7									25.0	14.0	18.0	14.0
8									25.5	14.0	17.0	11.5
9									26.0	13.5	20.0	12.5
10									27.0	14.5	17.0	14.0
11									25.5	14.0	19.0	12.5
12									26.5	13.5	17.5	12.0
13									27.0	15.5	18.5	10.5
14									27.0	16.0	18.5	12.0
15									26.0	16.5	18.5	10.5
16									26.0	14.0	20.5	10.5
17									26.5	15.5	20.5	10.5
18									22.5	16.5	17.0	13.0
19									24.5	12.5	17.5	9.5
20									25.0	13.0	14.5	10.0
21									25.5	14.0	17.0	7.5
22									22.0	17.5	17.0	7.5
23									27.0	15.0	18.0	8.0
24									27.0	16.0	18.0	9.0
25									26.0	16.5	18.5	9.0
26									26.0	16.0	17.5	11.0
27									22.0	16.0	18.5	9.5
28									20.0	10.0	18.5	10.0
29									17.0	9.5	18.5	9.5
30									20.5	11.0	18.5	9.0
31									20.0	10.5	---	---
MONTH									27.0	9.5	22.5	7.5

10353600 KINGS RIVER NEAR OROVADA, NV

LOCATION.--Lat 41°54'25", long 118°18'30", in SW¼SE¼ sec.31, T.47 N., R.33 E., Humboldt County, Hydrologic Unit 16040201, on left bank 2.8 mi (4.5 km) downstream from Little Creek, 5 mi (8.0 km) upstream from Kings River Ranch, and 36 mi (57.9 km) northwest of Orovada.

DRAINAGE AREA.--20.5 mi^2 (53.1 km^2).

PERIOD OF RECORD.--October 1962 to September 1968, October 1976 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,68[illegible] ft (1,430 m) from topographic map.

REMARKS.--Records fair except those for winter months and period of faulty gage-height record, May 23 to July 6, which are poor. No diversion or regulation above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--10 years (1962-68, 1978-80), 4.76 ft^3/s (0.135 m^3/s), 3,450 acre-ft/yr (4.25 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 770 ft^3/s (21.8 m^3/s) Feb. 1, 1963, gage height 4.00 ft (1.219 m) from rating curve extended above 24 ft^3/s (0.680 m^3/s) on basis of estimate by slope-area method; no flow Aug. 9, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 73 ft^3/s (2.07 m^3/s) Apr. 19, gage height, 2.59 ft (0.789 m); maximum gage-height, 2.73 ft (0.832m) about Dec. 28 (back water from ice); minimum daily, 1.4 ft^3/s (0.040 m^3/s) Aug. 11-13, 28, Sept. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	2.2	2.4	2.5	3.7	9.4	9.1	38	13	3.8	2.2	1.6
2	1.8	2.4	2.4	2.5	3.5	9.1	8.8	35	12	4.0	1.9	1.5
3	1.7	2.6	2.6	2.5	3.5	8.5	8.5	33	12	4.2	1.7	1.6
4	1.8	2.7	2.4	2.5	3.3	9.4	8.8	30	11	4.2	1.7	1.5
5	1.8	2.6	2.3	2.6	3.3	9.4	9.4	32	10	4.0	1.7	1.5
6	1.8	2.6	2.4	2.6	3.9	9.4	9.4	43	9.6	3.9	1.6	1.4
7	1.8	2.3	2.4	2.5	3.5	9.1	9.4	40	9.0	3.7	1.6	1.5
8	1.8	2.2	2.4	2.6	4.1	8.5	9.7	35	8.0	4.3	1.5	1.6
9	1.8	2.2	2.4	2.7	4.3	8.5	9.7	33	6.8	3.7	1.5	1.6
10	1.8	2.3	2.3	2.8	3.9	7.6	10	33	6.4	3.3	1.5	1.7
11	1.8	2.3	2.2	2.8	3.9	7.6	10	30	6.5	3.2	1.4	2.4
12	1.9	2.3	2.3	4.0	4.1	7.6	12	27	7.0	3.2	1.4	2.1
13	1.9	2.4	2.3	25	4.3	7.9	14	26	7.3	3.2	1.4	2.4
14	1.9	2.4	2.4	17	4.5	7.9	17	25	7.4	2.9	1.5	2.0
15	2.0	2.3	2.5	11	5.8	7.9	25	23	7.0	2.9	1.7	1.9
16	2.0	2.2	2.5	12	6.5	8.5	30	22	6.4	2.4	1.6	1.8
17	2.0	2.3	2.4	9.5	11	7.9	37	19	5.6	2.4	1.6	1.7
18	2.1	2.3	2.4	7.0	24	8.2	41	17	5.6	2.3	1.5	1.7
19	2.9	2.3	2.5	5.0	21	8.2	51	16	6.0	2.3	1.7	1.8
20	2.7	2.4	2.6	4.0	16	7.9	54	16	5.6	2.2	1.6	1.9
21	2.4	2.4	2.7	3.6	14	7.9	50	15	5.0	2.1	1.5	2.0
22	2.3	2.4	2.7	3.7	14	8.2	47	15	4.8	1.9	1.7	1.9
23	2.3	2.4	2.6	4.2	12	8.2	50	16	4.5	2.0	1.8	1.8
24	2.3	2.4	2.5	4.5	11	8.2	57	16	4.7	1.8	1.5	1.7
25	2.2	2.4	2.5	3.7	10	8.2	49	15	4.7	1.8	1.5	1.7
26	2.2	2.4	2.5	3.5	9.4	8.2	46	14	4.6	1.7	1.5	1.6
27	2.2	2.4	2.4	3.3	8.8	8.5	43	13	4.2	1.6	1.5	1.6
28	2.2	2.4	2.3	3.2	8.8	8.5	46	12	4.0	1.6	1.4	1.5
29	2.2	2.4	2.3	3.1	10	8.8	44	11	3.9	2.7	1.5	1.6
30	2.2	2.4	2.4	3.4	---	8.8	43	12	3.8	2.7	1.6	1.6
31	2.3	---	2.5	3.7	---	8.8	---	13	---	2.2	1.6	---
TOTAL	63.9	71.9	75.5	163.0	236.1	260.8	858.8	725	206.4	88.2	49.4	52.2
MEAN	2.06	2.38	2.44	5.26	8.14	8.41	28.6	23.4	6.88	2.85	1.59	1.74
MAX	2.9	2.7	2.7	25	24	9.4	57	43	13	4.3	2.2	2.4
MIN	1.7	2.2	2.2	2.5	3.3	7.6	8.5	11	3.8	1.6	1.4	1.4
AC-FT	127	141	150	323	468	517	1700	1440	409	175	98	104

CAL YR 1979 TOTAL 1996.5 MEAN 5.47 MAX 30 MIN 1.1 AC-FT 3960
WTR YR 1980 TOTAL 2850.6 MEAN 7.79 MAX 57 MIN 1.4 AC-FT 5650

10353650 QUINN RIVER NEAR DENIO, NV

LOCATION.--Lat 41°27'50", long 118°16'50", in SW¼SE¼ sec.33, T.42 N., R.33 E., Humboldt County, Hydrologic Unit 16040201, on right bank 8 mi (13 km) downstream from Kings River and 42 mi (68 km) southeast of Denio.

DRAINAGE AREA.--3,520 mi^2 (9,117 km^2), approximately.

PERIOD OF RECORD.--October 1963 to September 1967, October 1977 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,100 ft (1,250 m), from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--7 years (1964-67, 1978-80), 2.12 ft^3/s (0.0600 m^3/s), 1,540 acre-ft/yr (1.90 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 227 ft^3/s (6.43 m^3/s) May 8, 1978, gage height 4.66 ft (1.42 m), no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 101 ft^3/s (2.86 m^3/s) Jan. 15, gage height 3.21 ft (0.978 m), no flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.01	4.5	.00	.12	.00	.00	.00	.00
2	.00	.00	.00	.00	.01	3.5	.00	.02	.00	.00	.00	.00
3	.00	.00	.00	.00	.03	3.6	.00	.01	.00	.00	.00	.00
4	.00	.00	.00	.00	.04	3.6	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.04	3.5	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.83	3.1	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	7.4	1.7	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	11	.59	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	10	.25	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	5.6	.10	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	5.2	.08	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	4.0	.08	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	3.2	.25	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	1.5	2.8	.59	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	45	3.2	.65	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	32	2.8	.40	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	28	2.6	.21	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	26	8.8	.12	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	24	16	.02	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	22	10	.01	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	20	14	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	18	18	.00	.44	.00	.00	.00	.00	.00
23	.00	.00	.00	16	18	.00	.02	.00	.00	.00	.00	.00
24	.00	.00	.00	14	24	.00	.01	.00	.00	.00	.00	.00
25	.00	.00	.00	12	23	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	9.4	19	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	12	15	.00	.68	.00	.00	.00	.00	.00
28	.00	.00	.00	10	12	.00	3.4	.00	.00	.00	.00	.00
29	.00	.00	.00	2.9	8.8	.00	1.5	.00	.00	.00	.00	.00
30	.00	.00	.00	.12	---	.00	.47	.00	.00	.00	.00	.00
31	.00	---	.00	.03	---	.00	---	.00	---	.00	.00	---
TOTAL	.00	.00	.00	292.95	245.36	26.85	6.52	.15	.00	.00	.00	.00
MEAN	.000	.000	.000	9.45	8.46	.87	.22	.005	.000	.000	.000	.000
MAX	.00	.00	.00	45	24	4.5	3.4	.12	.00	.00	.00	.00
MIN	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	581	487	53	13	.3	.00	.00	.00	.00

CAL YR 1979 TOTAL 138.11 MEAN .38 MAX 11 MIN .00 AC-FT 274
WTR YR 1980 TOTAL 571.83 MEAN 1.56 MAX 45 MIN .00 AC-FT 1130

BEST DOCUMENT AVAILABLE

10353700 LEONARD CREEK NEAR DENIO, NV

LOCATION.--Lat 41°31'40", long 118°42'45", in SE¼ sec.25, T.42 N., R.28 E., Humboldt County, Hydrologic Unit 16040202, on right bank 0.3 mi (0.5 km) upstream from concrete diversion structure, 0.7 mi (1.1 km) upstream from Leonard Creek ranch buildings, about 18 mi (29 km) upstream from Quinn River, and 32 mi (51 km) south of Denio.

DRAINAGE AREA.--52 mi^2 (135 km^2), approximately.

PERIOD OF RECORD.--October 1960 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,300 ft (1,310 m) from topographic AMS map. Prior to Aug. 21, 1969, at site 50 ft (15 m) downstream at datum 0.28 ft (0.085 m) lower.

REMARKS.--Records poor. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--20 years, 5.92 ft^3/s (0.168 m^3/s), 4,290 acre-ft/yr (5.29 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 612 ft^3/s (17.3 m^3/s) Feb. 1, 1963, gage height, 4.98 ft (1.518 m), from rating curve extended above 15 ft^3/s (0.42 m^3/s) on basis of slope-area measurement of peak flow; no flow for part of each day July 23 to Aug. 5, 1961, Jan. 11, 12, 1963.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 15 ft^3/s (0.425 m^3/s) and maximum (*):

Date	Time	Discharge		Gage height	
		(ft^3/s)	(m^3/s)	(ft)	(m)
Jan. 13	1800	146	4.13	2.15	0.655
Feb. 18	0200	*338	9.57	2.96	0.902
Apr. 20	Unknown	about 200	5.66	Unknown	

Minimum daily discharge 2.9 ft^3/s (0.082 m^3/s) Nov. 7, 11-14, 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	3.1	5.0	7.2	6.5	15	10	55	31	20	9.7	5.4
2	3.1	3.0	6.0	7.0	7.0	14	9.5	50	32	18	9.0	4.9
3	3.1	3.3	7.0	6.3	7.0	15	10	46	32	18	8.3	4.9
4	3.1	3.4	6.5	7.0	6.4	15	10	46	30	17	8.3	4.9
5	3.1	3.2	6.5	6.7	6.3	13	11	48	29	17	8.3	4.9
6	3.1	3.0	7.0	6.9	6.5	12	10	51	29	17	7.8	4.9
7	3.1	2.9	7.5	6.0	6.0	12	11	47	30	16	7.6	4.9
8	3.1	3.0	7.5	6.2	7.1	12	11	49	30	17	7.6	4.9
9	3.1	3.0	7.0	6.5	6.1	12	24	46	30	19	7.0	4.9
10	3.1	3.1	6.5	7.4	5.9	14	45	43	30	18	6.6	4.9
11	3.1	2.9	6.0	6.5	6.7	13	40	37	32	16	6.6	5.9
12	3.2	2.9	5.5	14	6.1	9.2	55	30	33	16	6.6	4.9
13	3.2	2.9	5.5	80	6.2	12	67	32	34	16	7.0	8.3
14	3.2	2.9	5.8	48	6.4	13	71	33	33	15	7.4	6.0
15	3.3	3.0	6.2	23	9.8	12	60	29	31	14	7.6	4.9
16	3.2	2.9	6.2	18	14	12	61	27	30	14	7.0	4.9
17	3.2	3.5	6.0	18	56	9.5	72	28	29	14	7.0	4.5
18	3.4	3.5	6.0	9.1	134	9.5	80	30	28	14	7.0	4.9
19	4.0	3.3	6.4	8.5	64	9.5	88	28	30	14	7.0	4.9
20	4.5	3.2	7.0	7.5	33	9.5	90	29	30	12	6.4	4.9
21	4.4	3.1	7.2	8.0	22	9.5	87	30	30	11	6.4	5.4
22	4.0	3.1	7.3	8.7	17	8.9	80	32	32	10	6.6	4.9
23	3.5	3.1	7.0	7.9	14	8.5	75	33	32	10	7.0	4.7
24	3.3	3.4	7.5	7.0	14	8.5	80	32	30	9.7	5.9	4.5
25	3.2	3.7	8.0	7.3	15	9.9	70	31	28	9.7	5.9	4.5
26	3.2	4.5	8.0	7.4	16	9.9	65	30	25	9.0	5.4	4.5
27	3.2	4.7	7.7	7.0	17	11	60	30	25	9.0	5.4	4.1
28	3.2	4.7	7.0	6.5	17	10	62	29	22	9.0	5.4	4.1
29	3.0	4.6	6.5	6.2	16	10	62	30	21	9.8	5.2	4.1
30	3.0	4.5	6.5	6.0	---	12	60	30	20	12	5.2	4.1
31	3.1	---	6.8	6.2	---	11	---	31	---	10	5.4	---
TOTAL	102.4	101.4	206.6	378.0	549.0	352.4	1536.5	1122	878	431.2	213.6	148.5
MEAN	3.30	3.38	6.66	12.2	18.9	11.4	51.2	36.2	29.3	13.9	6.89	4.95
MAX	4.5	4.7	8.0	80	134	15	90	55	34	20	9.7	8.3
MIN	3.0	2.9	5.0	6.0	5.9	8.5	9.5	27	20	9.0	5.2	4.1
AC-FT	203	201	410	750	1090	699	3050	2230	1740	855	424	295

CAL YR 1979 TOTAL 2612.2 MEAN 7.16 MAX 71 MIN 2.0 AC-FT 5180
WTR YR 1980 TOTAL 6019.6 MEAN 16.4 MAX 134 MIN 2.9 AC-FT 11940

10353770 SOUTH WILLOW CREEK NEAR GERLACH, NV

LOCATION.--Lat 41°01'00", long 119°21'00", in E½ sec.11, T.36 N., R.23 E., Washoe County, Hydrologic Unit 16040203, on left bank 150 ft (50 m) east of State Highway 34 and 25 mi (40 km) north of Gerlach.

DRAINAGE AREA.--31 mi^2 (80 km^2), approximately.

PERIOD OF RECORD.--Water years 1963-73 (annual maximum), August 1973 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,500 ft (1,372 m), approximately (from topographic map). July 1, 1963, to Aug. 16, 1973, operated as a crest-stage gage only, at datum 1.00 ft (0.305 m) lower.

REMARKS.--Records fair. No diversion or regulation above station.

AVERAGE DISCHARGE.--7 years (1974-80) 0.61 ft^3/s (0.0173 m^3/s), 442 acre-ft/yr (545,000 m^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 400 ft^3/s (11.3 m^3/s), Feb. 18, 1980, gage height, 3.98 ft (1.213 m), from rating curve extended above 50 ft^3/s (1.42 m^3/s) on basis of slope conveyance determination of peak flow; no flow most of the time.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of unknown date reached a stage of 9.4 ft (2.87 m), present datum, from floodmarks, estimated discharge, 3,100 ft^3/s (8.78 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 400 ft^3/s (11.3 m^3/s) Feb. 18, gage height, 3.98 ft (1.213 m) from rating curve extended above 50 ft^3/s (1.42 m^3/s) on basis of slope-conveyance determination of peak flow; no flow Oct. 1 to Jan. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.55	2.2	2.6	2.6	.96	.16	.03	.02
2	.00	.00	.00	.00	.53	2.2	2.6	2.5	.93	.16	.03	.02
3	.00	.00	.00	.00	.51	2.2	2.6	2.5	.91	.21	.03	.02
4	.00	.00	.00	.00	.50	2.2	2.6	2.6	.89	.14	.02	.02
5	.00	.00	.00	.00	.49	2.2	2.6	2.5	.87	.14	.01	.01
6	.00	.00	.00	.00	.48	2.2	2.5	2.3	.85	.14	.01	.01
7	.00	.00	.00	.00	.47	2.3	2.5	2.6	.82	.12	.01	.18
8	.00	.00	.00	.00	.46	2.3	2.5	2.3	.80	.12	.01	.06
9	.00	.00	.00	.00	.45	2.3	2.5	2.7	.79	.12	.01	.04
10	.00	.00	.00	.00	.45	2.3	2.5	2.5	.65	.10	.01	.73
11	.00	.00	.00	.00	.44	2.4	2.5	2.5	.64	.10	.01	.10
12	.00	.00	.00	14	.44	2.4	2.5	2.3	.64	.10	.01	.04
13	.00	.00	.00	125	.43	2.4	2.5	2.1	.64	.10	.01	.05
14	.00	.00	.00	41	.43	2.4	2.5	2.6	.64	.09	.23	.04
15	.00	.00	.00	9.5	.43	2.4	2.5	2.2	.50	.09	.10	.04
16	.00	.00	.00	8.0	5.3	2.4	2.5	1.8	.37	.09	.04	.04
17	.00	.00	.00	7.3	19	2.4	2.5	1.7	.27	.07	.04	.04
18	.00	.00	.00	4.2	115	2.5	2.5	1.5	.27	.07	.04	.03
19	.00	.00	.00	1.9	51	2.5	2.5	1.3	.24	.07	.04	.03
20	.00	.00	.00	2.9	13	2.5	2.4	1.2	.24	.07	.04	.04
21	.00	.00	.00	2.1	17	2.5	2.4	1.2	.24	.06	.04	.04
22	.00	.00	.00	1.3	9.3	2.5	2.3	1.2	.24	.06	.04	.04
23	.00	.00	.00	1.1	5.3	2.5	2.6	1.2	.21	.06	.04	.03
24	.00	.00	.00	1.1	3.6	2.6	2.8	1.1	.21	.06	.04	.02
25	.00	.00	.00	1.1	2.8	2.6	3.0	1.1	.21	.05	.03	.02
26	.00	.00	.00	.75	2.2	2.6	3.1	1.1	.19	.05	.03	.02
27	.00	.00	.00	.69	2.1	2.6	2.9	1.0	.19	.05	.02	.02
28	.00	.00	.00	.64	2.1	2.6	2.9	1.0	.19	.04	.02	.02
29	.00	.00	.00	.62	2.1	2.6	2.8	1.0	.19	.04	.02	.02
30	.00	.00	.00	.59	---	2.6	2.8	1.0	.16	.04	.02	.01
31	.00	---	.00	.57	---	2.6	---	.98	---	.04	.02	---
TOTAL	.00	.00	.00	224.36	256.86	75.0	78.0	56.18	14.95	2.81	1.05	1.81
MEAN	.000	.000	.000	7.24	8.86	2.42	2.60	1.81	.50	.091	.034	.060
MAX	.00	.00	.00	125	115	2.6	3.1	2.7	.96	.21	.23	.73
MIN	.00	.00	.00	.00	.43	2.2	2.3	.98	.16	.04	.01	.01
AC-FT	.00	.00	.00	445	509	149	155	111	30	5.6	2.1	3.6

CAL YR 1979 TOTAL 11.14 MEAN .031 MAX 2.0 MIN .00 AC-FT 22
WTR YR 1980 TOTAL 711.02 MEAN 1.94 MAX 125 MIN .00 AC-FT 1410

GOOSE CREEK BASIN

13082500 GOOSE CREEK ABOVE TRAPPER CREEK, NEAR OAKLEY, ID

LOCATION.--Lat 42°07'30", long 113°56'20", in sec.13, T.15 S., R.21 E., Cassia County, Hydrologic Unit 17040211, on right bank 0.2 mi (0.3 km) upstream from maximum flow line of Oakley Reservoir, 5 mi (8 km) upstream from Trapper Creek, 5 mi (8 km) south of Oakley Dam, and 9 mi (14.5 km) southwest of Oakley, and at mile 35.1 (56.5 km).

DRAINAGE AREA.--633 mi^2 (1,640 km^2). Mean altitude, 6,030 ft (1,837.9 m).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1911 to September 1916, March 1919 to current year. Monthly discharge only for some periods, published in WSP 1317.

REVISED RECORDS.--WSP 1567: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,770 ft (1,453.9 m) by barometer. Prior to Aug. 29, 1912, at site 200 ft (61.0 m) downstream at different datum.

REMARKS.--Records fair. Decreed water rights are reported to apply to about 2,700 acres (1,090 hm^2) above station. Diversions for irrigation are made as flow permits to a major part of this acreage. Flow of artesian well, completed in 1935, enters below station. Pumps on four wells above and one below gage may occasionally discharge into the channel. Practically entire flow passing station is stored in Oakley Reservoir (see sta 13083500).

AVERAGE DISCHARGE.--66 years, 46.9 ft^3/s (1.33 m^3/s), 33,980 acre-ft/yr (41.90 hm^3).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,240 ft^3/s (91.8 m^3/s) Feb. 11, 1962, gage height, 9.3 ft (2.83 m), from rating curve extended above 200 ft^3/s (5.66 m^3/s) on basis of slope-area measurement of peak flow; no flow July 22 to Aug. 10, Aug. 22-30, 1934, Aug. 15 to Oct. 3, 1935, July 22 to Sept. 25, 1940, Sept. 14, 1947.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,130 ft^3/s (32.0 m^3/s) Jan. 14, gage height, 6.62 ft (2.018 m); minimum 9.4 ft^3/s (0.266 m^3/s) Oct. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	24	20	23	30	57	41	198	152	53	23	16
2	14	24	26	26	32	54	47	191	178	58	23	16
3	14	25	28	29	35	55	44	188	202	56	22	16
4	14	25	28	32	38	55	44	176	208	56	20	16
5	14	25	27	30	44	53	44	171	217	52	18	15
6	14	26	28	31	46	52	47	178	217	50	18	14
7	15	25	29	32	44	50	49	189	203	45	18	14
8	15	25	31	26	49	48	50	195	186	41	17	15
9	13	25	31	26	50	47	50	200	171	40	16	15
10	11	24	31	35	44	45	49	200	161	37	16	15
11	11	24	25	44	43	44	50	200	153	34	15	29
12	11	22	22	78	45	44	52	220	146	31	16	23
13	12	22	21	351	45	43	53	215	135	29	13	22
14	12	25	20	797	43	45	59	205	130	26	13	21
15	13	24	22	371	99	44	69	200	125	30	16	20
16	16	25	24	132	238	41	81	195	120	28	17	17
17	16	28	25	88	196	38	92	200	115	25	16	20
18	17	25	25	76	220	41	107	200	110	24	17	18
19	21	24	24	66	157	42	126	190	105	23	19	18
20	25	21	23	52	114	41	142	180	105	22	21	18
21	26	20	25	54	87	42	160	170	100	21	19	18
22	24	22	26	49	72	44	176	170	93	20	17	18
23	22	24	25	47	65	43	198	164	90	19	17	19
24	21	28	23	45	59	40	211	190	85	18	15	19
25	20	26	20	44	54	39	215	207	80	17	18	19
26	20	25	27	40	54	38	198	184	76	16	17	19
27	19	24	26	35	55	39	195	159	74	18	18	19
28	20	22	25	25	58	41	198	144	68	23	17	18
29	21	20	23	24	58	39	208	149	64	21	16	18
30	22	17	20	25	---	42	208	146	58	20	16	19
31	24	---	22	28	---	43	---	144	---	21	16	---
TOTAL	532	716	772	2761	2174	1389	3263	5718	3927	974	540	544
MEAN	17.2	23.9	24.9	89.1	75.0	44.8	109	184	131	31.4	17.4	18.1
MAX	26	28	31	797	238	57	215	220	217	58	23	29
MIN	11	17	20	23	30	38	41	144	58	16	13	14
AC-FT	1060	1420	1530	5480	4310	2760	6470	11340	7790	1930	1070	1080

CAL YR 1979 TOTAL 19129.2 MEAN 52.4 MAX 725 MIN 7.2 AC-FT 37940
WTR YR 1980 TOTAL 23310.0 MEAN 63.7 MAX 797 MIN 11 AC-FT 46240

13082500 GOOSE CREEK ABOVE TRAPPER CREEK NEAR OAKLEY, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1949 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH FIELD (UNITS)	TEMPER-ATURE, WATER (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO
NOV 08...	1155	25	449	7.8	2.0	160	48	10	20	.7
DEC 12...	1140	18	422	--	.5	--	--	--	--	--
JAN 16...	1120	120	232	--	1.0	--	--	--	--	--
MAR 27...	1415	41	399	--	5.5	--	--	--	--	--
MAY 22...	0815	168	224	7.6	17.0	89	27	5.2	11	.5
JUL 24...	1240	16	500	--	22.5	--	--	--	--	--
SEP 12...	1130	22	328	--	13.5	--	--	--	--	--

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY FIELD (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
NOV 08...	7.5	160	26	15	.4	33	256	1	.02	.050
DEC 12...	--	--	--	--	--	--	--	--	--	--
JAN 16...	--	--	--	--	--	--	--	--	--	--
MAR 27...	--	--	--	--	--	--	--	--	--	--
MAY 22...	.5	82	9.4	7.9	.2	36	147	6	.22	.270
JUL 24...	--	--	--	--	--	--	--	--	--	--
SEP 12...	--	--	--	--	--	--	--	--	--	--

13105000 SALMON FALLS CREEK NEAR SAN JACINTO, NV

LOCATION.--Lat 41°56'40", long 114°41'15", in NE¼SW¼ sec.23, T.47 N., R.64 E., Elko County, Hydrologic Unit 17040213, on right bank in canyon, 630 ft (192 m) downstream from bridge on U.S. Highway 93, 550 ft (168 m) downstream from Shoshone Creek, and 5 mi (8 km) north of San Jacinto.

DRAINAGE AREA.--1,450 mi^2 (3,760 km^2), approximately. Mean altitude, 6,350 ft (1,935 m).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1909 to June 1910 (gage heights only), June 1910 to September 1916, October 1918 to current year. Monthly discharge only for some periods published in WSP 1317. Prior to October 1910, published as Salmon Falls "River."

REVISED RECORDS.--WSP 1934: 1943 (M).

GAGE.--Water-stage recorder. Altitude of gage is 5,120 ft (1,561 m), by barometer. Prior to June 6, 1910, nonrecording gage at nearby site at different datum. June 6, 1910, to Sept. 30, 1916, Oct. 1, 1918, to Aug. 28, 1964, water-stage recorder at site 35 ft (11 m) upstream at same datum.

REMARKS.--Records good. Diversions above station for irrigation of about 18,200 acres (7,370 hm^2) 1966 determination. Salmon Dam of Salmon River Canal Co. is 15 mi (24 km) downstream (see station 13106500).

AVERAGE DISCHARGE.--68 years (1911-16, 1919-80), 141 ft^3/s (3.993 m^3/s), 102,200 acre-ft/yr (126 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 2,430 ft^3/s (68.8 m^3/s) May 18, 1975, gage height, 10.83 ft (3.301 m); maximum gage height, 12.65 ft (3.856 m) Feb. 12, 1962; minimum discharge, 2.6 ft^3/s (0.074 m^3/s) Sept. 4, 1961, gage height, 3.37 ft (1.027 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,430 ft^3/s (40.5 m^3/s) Jan. 14, gage height, 9.39 ft (2.862 m); minimum daily, 23 ft^3/s (0.651 m^3/s) Aug. 31 and Sept. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	62	53	63	97	190	120	710	576	180	47	27
2	41	60	58	66	105	180	137	664	604	194	52	29
3	40	59	64	66	107	183	139	644	728	191	45	31
4	41	62	66	67	110	176	144	680	746	192	42	27
5	41	63	66	66	115	166	150	697	834	180	44	26
6	41	62	66	63	118	163	171	667	809	171	50	25
7	41	62	67	55	135	147	180	687	753	154	48	25
8	41	61	66	69	119	136	174	738	686	140	48	24
9	42	59	66	66	105	129	172	734	629	136	48	23
10	43	58	66	67	101	123	182	724	587	125	41	35
11	44	57	58	54	98	125	198	714	577	114	40	75
12	44	57	53	113	97	133	193	794	571	104	36	58
13	45	57	58	720	98	127	198	772	561	94	33	50
14	46	57	61	1180	101	128	224	690	544	87	31	48
15	47	57	63	827	180	131	284	654	534	83	32	49
16	48	57	61	305	429	127	333	661	493	78	33	49
17	48	58	61	217	272	114	391	693	445	74	34	49
18	48	60	60	188	333	114	460	690	401	71	35	50
19	53	58	60	129	582	123	564	728	394	67	40	50
20	67	52	62	118	353	110	638	621	402	64	40	51
21	77	46	63	120	231	105	717	603	374	61	38	50
22	68	50	64	124	198	111	794	609	357	59	35	50
23	65	61	54	119	172	115	751	651	348	57	34	49
24	62	58	60	115	151	118	744	745	323	55	33	49
25	60	59	61	113	140	107	751	740	300	55	33	49
26	60	63	60	109	146	101	690	678	277	54	32	49
27	59	53	58	100	171	102	638	605	255	53	29	49
28	60	39	52	73	215	108	667	564	236	51	29	49
29	61	38	46	88	214	107	703	538	216	47	26	48
30	60	50	46	86	---	118	744	519	193	44	26	48
31	61	---	53	86	---	111	---	520	---	45	23	---
TOTAL	1595	1695	1852	5632	5293	4028	12251	20734	14753	3080	1157	1291
MEAN	51.5	56.5	59.7	182	183	130	408	669	492	99.4	37.3	43.0
MAX	77	63	67	1180	582	190	794	794	834	194	52	75
MIN	40	38	46	54	97	101	120	519	193	44	23	23
AC-FT	3160	3360	3670	11170	10500	7990	24300	41130	29260	6110	2290	2560

CAL YR 1979 TOTAL 60090 MEAN 165 MAX 850 MIN 21 AC-FT 119200
WTR YR 1980 TOTAL 73361 MEAN 200 MAX 1180 MIN 23 AC-FT 145500

13105000 SALMON FALLS CREEK NEAR SAN JACINTO, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1953 to September 1962, October 1963 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO
NOV 05...	1545	64	244	7.4	10.5	89	27	5.3	14	.6
DEC 10...	1630	65	232	--	4.5	--	--	--	--	--
JAN 14...	1715	1240	75	--	3.0	--	--	--	--	--
MAR 25...	1815	107	186	--	8.0	--	--	--	--	--
MAY 19...	1835	646	40	7.8	16.0	31	9.2	2.0	6.3	.5
JUL 23...	1045	67	194	--	18.5	--	--	--	--	--
SEP 12...	1335	57	256	--	17.5	--	--	--	--	--

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY FIELD (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
NOV 05...	6.2	100	15	7.2	.5	44	180	3	.09	.020
DEC 10...	--	--	--	--	--	--	--	--	--	--
JAN 14...	--	--	--	--	--	--	--	--	--	--
MAR 25...	--	--	--	--	--	--	--	--	--	--
MAY 19...	7.4	30	20	2.9	.2	38	105	18	.13	.070
JUL 23...	--	--	--	--	--	--	--	--	--	--
SEP 12...	--	--	--	--	--	--	--	--	--	--

13106500 SALMON RIVER CANAL CO. RESERVOIR NEAR ROGERSON, ID

LOCATION.--Lat 42°12'40", long 114°44'00", in NE¼ sec.18, T.14 S., R.15 E., Twin Falls County, Hydrologic Unit 17040213, Bureau of Land Management lands, at Salmon Falls Dam on Salmon Falls Creek, 7.5 mi (12.1 km) west of Rogerson, and at mile 46.0 (74.0 km).

DRAINAGE AREA.--1,610 mi^2 (4,170 km^2), approximately.

PERIOD OF RECORD.--January 1922 to current year.

GAGE.--Nonrecording gage. Datum of gage is 4,945.8 ft (1,507.5 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Reservoir is formed by gravity-section concrete-arch dam completed in 1911; storage began in 1910. Usable capacity, 182,650 acre-ft (225 hm^3) between gage heights 0.0 (bottom of outlet tunnel) and 80.0 ft (24.4 m) maximum operating level. Dead storage, 48,000 acre-ft (59.2 hm^3). Water is used for irrigation of lands in Salmon River Canal Co. project. Figures given herein represent usable contents.

COOPERATION.--Gage readings and capacity table furnished by Salmon River Canal Co.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 166,000 acre-ft (205 hm^3) June 24, 1975 gage height, 75.00 ft (22.860 m); minimum observed, 125 acre-ft (0.154 hm^3) Sept. 21 to Oct. 5, 1934, gage height, 0.1 ft (0.03 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 114,400 acre-ft (141 hm^3) June 17-18, gage height, 57.75 ft (17.602 m); minimum observed, 24,700 acre-ft (30.5 hm^3) Oct. 1, gage height, 16.90 ft (5.151 m).

Capacity table (gage height, in feet, and contents, in acre-feet)

16.0	23,200	40.0	69,800
20.0	30,000	50.0	93,800
30.0	48,800	60.0	120,600

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
AM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24700	26400	28300	30400	39800	48400	54300	76600	100600	109700	80500	55700
2	24800	26500	28400	30500	39900	48800	54400	77900	101300	109000	79600	55000
3	---	26600	28500	30600	40000	49100	54600	79200	102100	108100	78800	54400
4	---	26700	28600	30800	40200	49400	54800	80400	103200	107400	78000	53800
5	---	26800	28600	30800	40300	49700	55000	81600	104600	106700	77200	53200
6	---	26800	28700	30900	40500	49900	55200	82800	105900	106000	76300	52600
7	24900	26900	28800	---	40700	50100	55400	83200	107500	105200	75500	52100
8	---	27000	28900	31000	40900	50400	55700	83800	108900	104300	74700	51900
9	---	---	29000	31100	41000	50600	56000	84600	110000	103600	73900	---
10	25000	27100	29000	31400	41100	50800	56200	85300	110900	102600	73100	52000
11	---	27200	29200	---	41200	51000	56500	86000	112000	101700	72300	52100
12	---	27300	29200	31500	41300	51200	56800	86800	112500	100600	71300	52200
13	---	27400	29300	31700	41300	51400	57100	87500	113100	100200	70500	52200
14	25100	---	29400	33100	41500	51600	57400	88400	113500	99200	69600	---
15	25100	27400	29500	35000	41600	51700	57800	89000	113900	98200	68600	52300
16	---	---	---	36900	41900	51900	58300	89600	114200	97100	67800	52400
17	---	27500	29600	37500	42500	52100	59000	90400	114400	96100	66900	---
18	---	27600	29700	37900	43200	52200	59600	91000	114400	94900	66000	---
19	25200	---	29700	38400	43900	52300	60500	91800	114200	93900	65200	---
20	25500	---	---	38500	45000	52500	61300	92500	114100	92800	64400	---
21	25600	27700	29800	38600	45700	52700	62700	93300	113900	91800	63700	---
22	25700	---	29900	38800	46200	52800	64100	93900	113800	90800	62900	---
23	25800	27800	30000	39000	46600	53000	65600	94600	113600	89800	62200	---
24	25800	27900	30100	39200	46900	53100	67200	95200	113400	88600	61300	---
25	25900	28000	---	39300	47100	53200	68700	96200	113000	87500	60600	---
26	26000	28100	30200	39400	47400	53400	70100	97000	112500	86400	59900	---
27	26000	---	30200	39500	47600	53500	71600	97800	112100	85300	59200	---
28	26200	28200	---	39600	47900	53600	72800	98400	111400	84200	58400	---
29	26300	---	30300	39700	48100	53900	74000	99100	110600	83200	57800	---
30	26300	28300	---	---	---	54000	75300	99600	110200	82300	57000	52400
31	26300	---	30400	39700	---	54200	---	100000	---	81300	56300	---
MAX	---	---	---	---	48100	54200	75300	100000	114400	109700	80500	---
MIN	---	---	---	---	39800	48400	54300	76600	100600	81300	56300	---
(†)	17.85	19.00	20.25	25.35	29.65	32.70	42.35	52.45	56.25	44.95	33.75	31.80
(‡)	+1600	+2000	+2100	+9300	+8400	+6100	+21100	+24700	+10200	-28900	-25000	-3900

CAL YR 1979 ‡ +1400
WTR YR 1980 ‡ +27700

† Elevation, in feet, at end of month.
‡ Change in contents, in acre-feet.

13161500 BRUNEAU RIVER AT ROWLAND, NV

LOCATION.--Lat 41°56'00", long 115°40'25", in NW¼SE¼ sec.29, T.47 N., R.56 E., Elko County, Hydrologic Unit 17050102, Humboldt National Forest, on left bank 2 mi (3 km) upstream from McDonald Creek and 0.5 mi (0.8 km) south of Rowland.

DRAINAGE AREA.--382 mi^2 (989 km^2;. Area at crest-stage site, 380 mi^2 (984 km^2).

PERIOD OF RECORD.--June 1913 to September 1918 (published as "near Rowland"), water years 1962-66 (annual maximum), October 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,500 ft (1,372 m), from topographic map. June 1913 to September 1918, nonrecording gage at different site and datum. October 1961 to September 1966, crest-stage gage at site 3 mi (5 km) upstream at different datum.

REMARKS.--Records good except those for winter months which are fair. Minor diversions for irrigation above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--19 years, 119 ft^3/s (3.370 m^3/s), 86,220 acre-ft/yr (106 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,120 ft^3/s (60.0 m^3/s) Feb. 11, 1962, gage height, 13.0 ft (3.96 m) site and datum then in use; minimum, 5 ft^3/s (0.14 m^3/s) Aug. 12, 13, 1918.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 200 ft^3/s (5.66 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 13	2300	240	6.80	4.19	1.277	Feb. 29	2400	217	6.15	4.07	1.241
Feb. 20	0200	603	17.1	5.76	1.756	Apr. 21	1000	*832	23.6	6.47	1.972

Minimum discharge, 9.7 ft^3/s (0.27 m^3/s) Jan. 7, Sept. 5-7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	27	35	24	33	162	103	529	296	133	24	14
2	11	25	42	24	33	158	101	517	376	136	24	13
3	11	27	38	24	33	144	104	532	380	127	23	13
4	11	27	32	24	34	142	109	546	416	121	22	13
5	11	30	31	25	35	139	132	516	421	112	21	11
6	11	32	30	24	36	123	132	571	388	106	18	9.7
7	11	29	31	26	37	118	126	534	354	99	17	9.8
8	11	27	30	30	38	110	127	510	331	88	16	10
9	11	26	30	27	39	99	146	503	317	86	15	10
10	11	24	26	27	42	103	173	454	323	82	14	10
11	12	24	21	26	45	110	167	433	331	76	14	12
12	12	22	23	67	43	102	185	430	332	71	13	12
13	11	22	25	120	44	101	238	373	318	65	12	12
14	11	23	24	200	45	100	304	344	298	65	12	17
15	12	23	24	182	59	111	360	342	277	63	12	23
16	12	23	25	154	62	97	407	326	252	60	12	22
17	12	23	25	156	77	94	496	313	239	57	12	20
18	15	23	26	109	134	105	618	299	238	55	12	19
19	28	22	27	88	306	99	670	288	244	52	14	18
20	57	22	25	69	420	92	763	291	233	48	16	18
21	47	24	25	80	215	98	774	308	230	45	15	19
22	38	25	24	70	169	96	728	332	221	42	14	20
23	34	25	24	63	139	97	754	363	209	38	13	20
24	32	25	23	67	118	97	751	370	195	35	13	20
25	31	25	24	62	113	93	679	335	183	33	12	19
26	31	24	24	50	112	91	591	313	171	31	13	19
27	30	23	27	56	122	97	614	295	159	29	13	19
28	27	22	24	40	144	89	639	284	151	28	12	18
29	27	25	23	38	167	93	628	270	143	27	12	18
30	27	29	23	35	---	103	574	260	135	27	12	18
31	26	---	24	33	---	92	---	281	---	25	13	---
TOTAL	643	748	835	2020	2894	3355	12193	12062	8161	2062	465	476.5
MEAN	20.7	24.9	26.9	65.2	99.8	108	406	389	272	66.5	15.0	15.9
MAX	57	32	42	200	420	162	774	571	421	136	24	23
MIN	11	22	21	24	33	89	101	260	135	25	12	9.7
AC-FT	1280	1480	1660	4010	5740	6650	24180	23920	16190	4090	922	945

CAL YR 1979 TOTAL 41846.1 MEAN 115 MAX 636 MIN 7.1 AC-FT 83000
WTR YR 1980 TOTAL 45914.5 MEAN 125 MAX 774 MIN 9.7 AC-FT 91070

13174000 WILD HORSE RESERVOIR NEAR GOLD CREEK, NV

LOCATION.--Lat 41°41'10", long 115°50'35", in NE¼NW¼ sec.25, T.44 N., R.54 E., Elko County, Hydrologic Unit 17050104, in Humboldt National Forest, at Wild Horse Dam on Owyhee River, 8 mi (13 km) west of Gold Creek, and 12 mi (19 km) southeast of Mountain City.

DRAINAGE AREA.--109 mi^2 (541 km^2).

PERIOD OF RECORD.--March 1938 to current year. Monthend contents for some periods, published in WSP 1317.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Bureau of Indian Affairs).

REMARKS.--Reservoir is formed by concrete-arch dam; storage began Mar. 18, 1938. New dam completed in June 1969, capacity 71,500 acre-ft (88.2 hm^3) between elevations 6,138.50 ft (1,871.015 m), sill of outlet gate, and 6,205 ft (1,891.284 m) spillway crest. No dead storage. Water is used for irrigation on Duck Valley project.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed 77,780 acre-ft (95.9 hm^3) May 18, 19, 1975, elevation, 6,207.0 ft (1,891.89 m); no contents at times in each year (1938-41, 1964-65, 1968-69.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 74,370 acre-ft (91.7 hm^3) June 5, elevation 6,205.95 ft (1,891.57 m); minimum observed, 31,400 acre-ft (38.7 hm^3) Oct. 16, elevation 6,188.16 ft (1,886.15 m).

Capacity table (elevation, in feet and contents, in acre-feet)

6,188	31,110	6,198	52,310
6,189	32,940	6,199	54,810
6,190	34,820	6,200	57,390
6,191	36,760	6,201	60,040
6,192	38,780	6,202	62,780
6,193	40,860	6,203	65,600
6,194	43,010	6,204	68,510
6,195	45,230	6,205	71,500
6,196	47,520	6,206	74,590
6,197	49,880		

MONTHEND ELEVATIONS AND TOTAL CONTENTS AT 2400, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sep. 30	q	31,880	--
Oct. 31	q	31,800	-80
Nov. 30	q	32,300	+500
Dec. 31	q	33,310	+1,010
CAL YR 1979	--	--	+6,220
Jan. 31	q	36,760	+3,450
Feb. 29	6,192.87	40,590	+3,830
Mar. 31	6,194.67	44,500	+3,910
Apr. 30	6,202.70	64,760	+20,260
May 31	6,205.58	73,290	+8,530
June 30	6,205.13	71,910	-1,380
July 31	6,202.52	64,250	-7,660
Aug. 31	6,198.74	54,160	-10,090
Sep. 30	6,196.62	48,980	-5,180
WTR YR 1979-80	--	--	+17,100

q = Interpolated.

13174500 OWYHEE RIVER NEAR GOLD CREEK, NV

LOCATION.--Lat 41°41'15", long 115°50'38", in NE¼NW¼ sec.25, T.44 N., R.54 E., Elko County, Hydrologic Unit 17050104, in Humboldt National Forest, on left bank 500 ft (150 m) downstream from Wild Horse Dam, 0.1 mi (0.2 km) upstream from Beaver Creek, 8 mi (13 km) west of Gold Creek, and 12 mi (19 km) southeast of Mountain City.

DRAINAGE AREA.--209 mi^2 (541 km^2).

PERIOD OF RECORD.--March to November 1916, April 1917 to September 1925, October 1936 to current year. Monthly discharge only for some periods, published in WSP 1317.

REVISED RECORDS.--WSP 1317: 1939-42 (M).

GAGE.--Water-stage recorder. Datum of gage is 6,118.75 ft (1,864.995 m), Bureau of Reclamation datum. Prior to Oct. 1, 1936, at site 0.3 mi (0.5 km) upstream at different datum. Nov. 17, 1936, to Oct. 18, 1967, at site 0.1 mi (0.2 km) upstream at different datum. Oct. 19, 1967, to Sept. 30, 1971, temporary gage, 250 ft (76 m) downstream at different datum, while new dam was being constructed 300 ft (91 m) downstream from old dam.

REMARKS.--Records fair. Small diversions for irrigation above station. Flow regulated by Wild Horse Reservoir, capacity, 71,660 acre-ft (88.4 hm^3), 0.1 mi (0.2 km) upstream beginning Mar. 18, 1938. Monthly measurements of specific conductance and water temperature are listed in section titled "supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--52 years (1917-25, 1936-80), 42.3 ft^3/s (1.198 m^3/s), 30,650 acre-ft/yr (37.8 hm^3/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,819 ft^3/s (51.3 m^3/s) May 5, 1922, gage height, 10.11 ft (3.082 m), site and datum then in use; no flow at times when reservoir gates were closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 252 ft^3/s (7.14 m^3/s) June 5, gage height, 2.66 ft (0.811 m); no flow Nov. 1 to Jan. 11, Jan. 16 to May 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.7	.00	.00	.00	.00	.00	.00	.00	132	87	131	97
2	6.7	.00	.00	.00	.00	.00	.00	.00	161	84	131	96
3	6.7	.00	.00	.00	.00	.00	.00	.00	195	82	130	96
4	6.7	.00	.00	.00	.00	.00	.00	.00	202	81	131	97
5	6.7	.00	.00	.00	.00	.00	.00	.00	231	81	130	96
6	6.7	.00	.00	.00	.00	.00	.00	.00	220	78	130	94
7	6.7	.00	.00	.00	.00	.00	.00	.00	215	77	130	95
8	6.7	.00	.00	.00	.00	.00	.00	.00	200	89	129	94
9	6.7	.00	.00	.00	.00	.00	.00	.00	178	96	128	95
10	6.7	.00	.00	.00	.00	.00	.00	.00	158	96	130	94
11	6.7	.00	.00	.00	.00	.00	.00	.00	142	96	128	79
12	6.7	.00	.00	.10	.00	.00	.00	.00	126	95	129	70
13	6.7	.00	.00	.20	.00	.00	.00	.00	113	97	129	69
14	6.7	.00	.00	.26	.00	.00	.00	.00	104	97	139	69
15	6.7	.00	.00	.10	.00	.00	.00	.00	100	97	153	68
16	6.9	.00	.00	.00	.00	.00	.00	.00	93	96	153	68
17	7.0	.00	.00	.00	.00	.00	.00	.10	87	114	153	68
18	7.0	.00	.00	.00	.00	.00	.00	3.0	79	129	153	67
19	7.0	.00	.00	.00	.00	.00	.00	13	75	128	154	67
20	7.0	.00	.00	.00	.00	.00	.00	21	71	127	146	66
21	7.0	.00	.00	.00	.00	.00	.00	31	63	129	143	67
22	7.0	.00	.00	.00	.00	.00	.00	39	56	128	139	66
23	7.0	.00	.00	.00	.00	.00	.00	44	49	128	138	67
24	3.2	.00	.00	.00	.00	.00	.00	57	44	129	137	67
25	.10	.00	.00	.00	.00	.00	.00	68	52	130	138	66
26	.10	.00	.00	.00	.00	.00	.00	79	60	131	132	68
27	.10	.00	.00	.00	.00	.00	.00	87	54	132	131	70
28	.10	.00	.00	.00	.00	.00	.00	93	51	131	130	70
29	.10	.00	.00	.00	.00	.00	.00	94	47	132	115	56
30	.10	.00	.00	.00	---	.00	.00	98	72	131	97	41
31	.10	---	.00	.00	---	.00	---	110	---	130	96	---
TOTAL	160.30	.00	.00	.66	.00	.00	.00	837.10	3430	3358	4133	2283
MEAN	5.17	.000	.000	.021	.000	.000	.000	27.0	114	108	133	76.1
MAX	7.0	.00	.00	.26	.00	.00	.00	110	231	132	154	97
MIN	.10	.00	.00	.00	.00	.00	.00	.00	44	77	96	41
AC-FT	318	.00	.00	1.3	.00	.00	.00	1660	6800	6660	8200	4530

CAL YR 1979 TOTAL 12253.20 MEAN 33.6 MAX 261 MIN .00 AC-FT 24300
WTR YR 1980 TOTAL 14202.06 MEAN 38.8 MAX 231 MIN .00 AC-FT 28170

13176000 OWYHEE RIVER ABOVE CHINA DIVERSION DAM, NEAR OWYHEE, NV

LOCATION.--Lat 41°55'20", long 116°04'10", in NW¼ sec.6, T.46 N., R.53 E., Elko County, Hydrologic Unit 17050104, in Duck Valley Indian Reservation, on right bank 1,000 ft (300 m) downstream from Skull Creek, 1 mi (2 km) upstream from China diversion dam, and 2 mi (3 km) southeast of Owyhee.

DRAINAGE AREA.--458 mi^2 (1,186 km^2).

PERIOD OF RECORD.--March 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 5,425 ft (1,654 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1939, at datum 1.48 ft (0.451 m) higher.

REMARKS.--Records poor. No gage-height record November 7 to April 2. Numerous diversions above station for irrigation. Flow partly regulated by Wild Horse Reservoir. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--41 years, 145 ft^3/s (4.106 m^3/s), 105,100 acre-ft/yr (130 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,790 ft^3/s (79.0 m^3/s) about May 18, 1975, gage height, 10.84 ft (3.304 m), from inside high-water marks; minimum, 1.8 ft^3/s (0.051 m^3/s) Nov. 16, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,140 ft^3/s (60.6 m^3/s) Jan. 14, gage height, 10.17 ft (3.100 m), from flood marks; minimum daily 17 ft^3/s (0.31 m^3/s) Oct. 1-6, 9-13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	22	32	24	33	165	100	511	579	182	156	111
2	17	22	39	24	33	150	105	487	773	192	152	109
3	17	23	35	25	33	140	106	487	777	190	151	106
4	17	25	30	25	34	140	110	468	760	172	144	107
5	17	26	27	25	34	130	118	447	767	167	143	106
6	17	23	25	25	35	120	119	510	715	159	137	104
7	18	22	24	25	37	115	116	441	669	153	138	105
8	18	22	24	25	38	110	120	421	620	152	139	107
9	17	22	23	26	39	105	131	463	574	159	139	107
10	17	22	23	26	41	105	151	452	523	156	136	111
11	17	22	23	35	42	100	141	434	485	154	136	119
12	17	23	23	50	44	100	153	481	433	153	129	99
13	17	23	23	100	47	100	188	438	404	154	128	95
14	18	23	23	1300	50	100	250	424	395	154	124	94
15	19	23	24	900	56	100	309	479	375	150	139	91
16	19	23	24	500	64	100	353	430	339	151	148	89
17	19	22	24	350	130	100	411	396	310	144	150	87
18	26	22	24	210	350	98	515	366	289	160	151	86
19	70	22	24	120	1000	98	561	350	276	169	159	85
20	53	23	24	96	600	98	644	336	245	170	156	88
21	38	23	24	82	250	96	683	328	230	166	140	86
22	37	24	24	72	160	94	686	325	215	166	134	85
23	32	24	24	64	140	94	695	357	203	166	138	84
24	26	24	24	58	120	92	790	378	190	163	135	84
25	26	23	24	52	110	92	764	384	177	166	135	83
26	26	23	24	48	115	92	651	437	179	161	141	83
27	24	22	24	45	120	92	621	442	171	159	137	83
28	23	23	24	42	140	92	618	447	166	156	136	83
29	22	24	24	38	160	94	605	488	157	157	135	78
30	22	27	24	35	---	94	550	483	148	155	118	64
31	22	---	24	34	---	96	---	553	---	154	112	---
TOTAL	745	692	782	4481	4055	3302	11364	13443	12144	5010	4316	2819
MEAN	24.0	23.1	25.2	145	140	107	379	434	405	162	139	94.0
MAX	70	27	39	1300	1000	165	790	553	777	192	159	119
MIN	17	22	23	24	33	92	100	325	148	144	112	64
AC-FT	1480	1370	1550	8890	8040	6550	22540	26660	24090	9940	8560	5590

CAL YR 1979 TOTAL 49937 MEAN 137 MAX 674 MIN 11 AC-FT 99050
WTR YR 1980 TOTAL 63153 MEAN 173 MAX 1300 MIN 17 AC-FT 125300

13177800 SOUTH FORK OWYHEE RIVER NEAR WHITEROCK, NV

LOCATION.--Lat 41°48'00", long 116°29'00", in NE¼ sec.16, T.45 N., R.49 E., Elko County, Hydrologic Unit 17050105, on left bank 500 ft (150 m) downstream from Rye Grass Creek, 1.8 mi (2.9 km) upstream from Chimney Creek, and 17 mi (27 km) northwest of Whiterock.

DRAINAGE AREA.--1,080 mi^2 (2,800 km^2), approximately.

PERIOD OF RECORD.--October 1955 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,900 ft (1,490 m), from topographic map.

REMARKS.--Records poor. Many diversions for irrigation of hay meadows above station. Flow partly regulated by four small reservoirs, total capacity, about 16,100 acre-ft (19.8 hm^2). Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--25 years, 165 ft^3/s (4.673 m^3/s), 119,500 acre-ft/yr (147 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,830 ft^3/s (108 m^3/s) June 5, 1963, gage height, 7.55 ft (2.301 m); no flow Oct. 1-12, 1955, part of Sept. 17, 28, 1960, Aug. 27, 31, 1961.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 600 ft^3/s (17.0 m^3/s) and maximum (*)

Date	Time	Discharge		Gage height		Date	Time	Discharge		Gage height	
		(ft^3/s)	(m^3/s)	(ft)	(m)			(ft^3/s)	(m^3/s)	(ft)	(m)
Jan. 14	unknown	unknown		unknown		Apr. 19	unknown	unknown		unknown	
Feb. 19	unknown	unknown		unknown		June 3	1900	*1670	47.3	6.25	1.905

Minimum daily discharge, 25 ft^3/s (0.71 m^3/s) Oct. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	32	43	36	48	230	160	770	751	145	49	26
2	25	32	55	36	49	230	160	720	1010	135	47	26
3	26	33	50	36	49	210	158	690	1540	125	46	26
4	26	34	45	36	50	205	160	660	1570	118	44	28
5	27	36	43	36	51	200	170	630	1440	110	42	28
6	27	35	40	36	54	195	175	610	1360	102	41	26
7	26	33	36	36	56	190	180	590	1160	95	39	27
8	27	32	35	37	57	185	185	570	957	90	38	28
9	27	32	35	38	57	185	195	567	838	84	37	28
10	27	32	34	40	59	180	205	597	773	80	36	29
11	27	32	33	50	61	180	220	610	695	66	35	34
12	27	32	33	70	65	180	230	681	620	53	33	33
13	27	32	33	110	70	178	260	697	551	52	32	34
14	26	32	34	1900	75	175	335	619	518	61	31	31
15	26	32	35	1250	80	170	410	627	510	65	30	29
16	27	32	35	800	90	168	530	705	514	61	30	28
17	27	32	35	500	200	168	630	606	457	84	29	27
18	27	32	35	300	500	165	720	531	410	79	28	27
19	100	32	35	200	1500	163	830	456	360	83	28	26
20	60	32	35	130	850	162	900	390	325	82	28	26
21	54	33	35	110	500	160	970	348	300	78	27	26
22	50	33	35	96	290	160	1020	341	280	74	27	27
23	46	33	35	90	200	158	1090	320	255	72	27	27
24	42	33	35	82	180	158	1150	369	235	69	27	26
25	39	33	35	77	165	158	1100	524	215	66	27	27
26	37	33	36	71	170	158	1010	657	200	63	26	27
27	35	33	36	67	180	158	940	610	190	61	26	27
28	34	34	36	62	200	158	860	557	180	58	26	27
29	32	36	36	57	220	160	830	541	165	56	26	27
30	32	39	36	53	---	160	800	519	155	54	26	28
31	32	---	36	50	---	160	---	615	---	51	26	---
TOTAL	1071	991	1150	6492	6126	5467	16583	17727	18534	2472	1014	836
MEAN	34.5	33.0	37.1	209	211	176	553	572	618	79.7	32.7	27.9
MAX	100	39	55	1900	1500	230	1150	770	1570	145	49	34
MIN	25	32	33	36	48	158	158	320	155	51	26	26
AC-FT	2120	1970	2280	12880	12150	10840	32890	35160	36760	4900	2010	1660

CAL YR 1979 TOTAL 70328 MEAN 193 MAX 1000 MIN 19 AC-FT 139500
WTR YR 1980 TOTAL 78463 MEAN 214 MAX 1900 MIN 25 AC-FT 155600

13181000 OWYHEE RIVER NEAR ROME, OR

LOCATION.--Lat 42°52'02", long 117°38'52", in SE¼NE¼ sec.14, T.31 S., R.41 E., Malheur County, Hydrologic Unit 17050107, on right bank 0.5 mi (0.8 km) downstream from Jordan Creek, 2.6 mi (4.2 km) north of Rome, and at mile 122.4 (196.9 km).

DRAINAGE AREA.--About 8,000 mi^2 (20,700 km^2).

PERIOD OF RECORD.--October 1949 to current year.

GAGE.--Water-stage recorder. Datum of gage is 3,344.20 ft (1,019.312 m) National Geodetic Vertical Datum of 1929. Prior to Feb. 10, 1960, at datum 0.24 ft (0.073 m) lower.

REMARKS.--Records good. Flow regulated by Antelope Reservoir, capacity, 70,000 acre-ft (86.3 hm^3), increased in 1970, and Wild Horse Reservoir, capacity, 32,690 acre-ft (40.3 hm^3), and numerous small reservoirs. Diversions above station for irrigation.

AVERAGE DISCHARGE.--31 years, 913 ft^3/s (25.86 m^3/s), 661,500 acre-ft/yr (816 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 33,500 ft^3/s (949 m^3/s) Dec. 24, 1964, gage height, 16.7 ft (5.09 m), from floodmark; minimum, 42 ft^3/s (1.19 m^3/s) Aug. 12, 1954, July 28, Aug. 5, 1961, July 31, 1968.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 5,400 ft^3/s (153 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 14	(a)	*11,700	331	b10.70	3.261
Feb. 19	0530	8,680	246	9.29	2.832

Minimum, 105 ft^3/s (2.97 m^3/s) Oct. 2.

(a) About 1800.
(b) From high-water mark in well.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	110	177	170	172	351	1850	801	2270	2410	506	232	164
2	109	177	193	175	473	1570	761	2070	2370	508	232	160
3	111	173	223	191	558	1430	731	1790	2750	495	232	167
4	113	173	238	192	543	1540	742	1740	3260	499	232	163
5	110	175	245	195	506	1680	805	1620	3260	507	232	162
6	111	176	228	180	501	1700	962	1530	3020	491	229	156
7	111	186	228	160	671	1470	937	1480	2910	457	228	156
8	111	187	245	160	702	1280	909	1440	2680	427	226	162
9	113	185	248	170	650	1150	925	1480	2390	402	224	163
10	114	177	244	208	558	1050	1020	1670	2130	376	219	174
11	113	182	245	197	480	1000	1090	1920	1970	358	213	172
12	114	182	189	162	439	1040	1110	1940	1810	337	213	166
13	111	176	189	288	412	1050	1160	1990	1660	307	214	234
14	111	173	185	9000	407	993	1360	2090	1580	303	207	219
15	131	169	195	6000	426	1080	1740	1990	1470	278	204	219
16	133	171	184	4000	497	1210	2190	1980	1430	262	198	241
17	137	170	194	2590	1230	1110	2090	2520	1360	256	193	234
18	139	172	198	2060	2470	1070	2250	1980	1300	245	210	222
19	149	170	190	1660	7300	1120	2470	1660	1170	245	195	218
20	149	173	184	1070	3780	1280	2610	1430	1110	242	190	214
21	151	165	186	823	3000	1310	2760	1270	1040	242	192	204
22	156	133	206	668	2160	1220	2860	1140	928	240	194	202
23	165	164	207	611	1790	1540	2990	1040	837	238	228	199
24	178	187	168	636	1430	1360	3150	1050	768	232	197	200
25	218	212	206	566	1440	1220	3240	1310	716	218	181	201
26	215	217	217	498	1420	985	3410	1490	665	206	172	203
27	194	211	193	350	2130	870	3100	2500	633	214	167	200
28	183	196	175	250	2550	801	2770	2810	581	210	163	192
29	174	160	166	320	2030	775	2560	2220	543	214	159	188
30	170	160	164	270	---	794	2440	1910	515	218	156	186
31	178	---	164	292	---	787	---	1880	---	225	161	---
TOTAL	4382	5331	6267	34114	40904	37335	55943	55210	49266	9958	6293	5741
MEAN	141	178	202	1100	1410	1204	1865	1781	1642	321	203	191
MAX	218	217	248	9000	7300	1850	3410	2810	3260	508	232	241
MIN	109	133	164	160	351	775	731	1040	515	206	156	156
AC-FT	8690	10570	12430	67670	81130	74050	111000	109500	97720	19750	12480	11390

CAL YR 1979 TOTAL 352002 MEAN 964 MAX 7450 MIN 105 AC-FT 698200
WTR YR 1980 TOTAL 310744 MEAN 849 MAX 9000 MIN 109 AC-FT 616400

COLORADO RIVER MAIN STEM

09420900 LAKE MEAD NEAR LAS VEGAS BEACH, NV (LAT 36°06'30", LONG 114°49'10")

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980*

DATE	TIME	SAMPLING DEPTH (FT)	SPECIFIC CONDUCTANCE (UMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO
NOV											
28...	1117	10	1120	8.3	17.0	9.0	--	--	--	--	--
28...	1140	219	1110	7.8	16.0	4.2	340	85	30	110	2.6
FEB											
26...	0930	10	1120	8.2	13.5	9.9	350	87	33	110	2.5
26...	1000	231	1200	8.2	13.0	8.6	400	100	37	120	2.6
MAY											
27...	1000	10	1110	8.2	20.0	9.7	330	80	31	110	2.6
27...	1015	265	1070	7.7	14.0	6.8	320	80	30	110	2.7
AUG											
27...	0900	10	1120	8.6	28.0	8.5	330	79	33	110	2.6
27...	0950	140	1010	7.6	21.5	3.5	350	87	32	110	2.6

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)
NOV											
28...	5.5	--	120	320	93	.3	--	--	.14	.010	.15
28...	5.7	--	130	320	87	.3	9.5	728	.41	.020	.43
FEB											
26...	5.4	--	130	310	96	.3	8.2	729	.24	.010	.25
26...	6.7	--	130	350	110	.4	9.2	813	--	--	--
MAY											
27...	5.6	140	110	310	98	.4	3.6	711	.11	.010	.12
27...	5.3	150	120	280	93	.4	8.9	681	.36	.010	.37
AUG											
27...	6.2	120	110	320	110	.4	8.6	733	--	--	.00
27...	5.9	150	130	300	100	.4	9.0	725	--	--	.50

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, DISSOLV (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
NOV										
28...	.14	.500	--	.32	--	.97	--	.010	--	--
28...	.43	.030	--	.41	--	.87	--	.040	--	--
FEB										
26...	.24	.070	.030	.49	.43	.81	.70	.000	.000	.010
26...	.31	--	.460	--	.43	--	1.2	--	.060	.060
MAY										
27...	.15	.030	--	.45	--	.60	--	.030	--	--
27...	.39	.010	--	.45	--	.83	--	.040	--	--
AUG										
27...	.02	--	--	--	--	--	--	.010	--	--
27...	.49	--	--	--	--	--	--	.040	--	--

DATE	TRANSPARENCY, SECCHI DISK (FEET)
NOV	
28...	22
FEB	
26...	41
MAY	
27...	24
AUG	
27...	10

*Samples and field data collected by U.S. Bureau of Reclamation.

COLORADO RIVER MAIN STEM

09420950 LAKE MEAD AT SADDLE ISLAND, NV (LAT 36°03'45", LONG 114°47'40")

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980*

DATE	TIME	SAMPLING DEPTH (FT)	SPECIFIC CONDUCTANCE (UMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO
NOV											
29...	1255	10	1160	8.3	15.5	8.8	320	80	30	110	2.7
29...	1315	146	1130	8.3	16.5	7.2	330	81	30	110	2.7
FEB											
26...	1135	10	1100	8.5	14.5	11.0	350	87	33	110	2.5
26...	1215	153	1100	8.3	13.0	9.0	--	--	--	--	--
26...	1300	340	1100	8.1	12.0	6.3	340	85	31	110	2.6
MAY											
27...	1115	10	1110	8.2	20.5	9.4	330	80	31	110	2.6
27...	1125	152	1080	8.2	16.5	8.4	--	--	--	--	--
27...	1132	308	1100	7.9	13.5	8.0	330	82	31	110	2.6
AUG											
27...	1210	10	1100	8.7	29.0	8.6	330	79	32	110	2.6
27...	1225	152	1090	8.4	18.0	6.4	--	--	--	--	--
27...	1235	295	1100	8.2	13.5	6.0	330	84	30	100	2.4

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)
NOV											
29...	--	--	120	320	92	.3	8.3	--	.09	.010	.10
29...	5.6	--	130	320	87	.3	8.7	722	.40	.020	.42
FEB											
26...	5.3	--	130	310	94	.3	8.2	727	.20	.010	.21
26...	--	--	--	--	--	--	--	--	--	--	--
26...	5.0	--	130	290	88	.4	8.5	698	--	--	--
MAY											
27...	5.5	140	110	300	98	.4	8.8	707	.13	.010	.14
27...	5.4	--	120	290	95	.4	9.0	703	.33	.010	.34
AUG											
27...	6.1	120	110	320	100	.4	8.7	722	--	--	.00
27...	--	--	--	--	--	--	--	--	--	--	--
27...	5.3	150	130	280	96	.4	8.8	684	--	--	.43

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, DISSOLV (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
NOV										
29...	.10	.030	--	.67	--	.80	--	.010	--	--
29...	.29	.010	--	.54	--	.97	--	.010	--	--
FEB										
26...	.21	.070	.010	.39	.42	.67	.64	.010	.000	.000
26...	--	--	--	--	--	--	--	--	--	--
26...	.36	--	.010	--	.53	--	.90	--	.010	.010
MAY										
27...	.17	.010	--	.45	--	.60	--	.020	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	.35	.010	--	.83	--	1.2	--	.020	--	--
AUG										
27...	.00	--	--	--	--	--	--	.010	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	.38	--	--	--	--	--	--	.050	--	--

DATE	TRANSPARENCY, SECCHI DISK (FEET)
NOV	
29...	30
FEB	
26...	18
MAY	
27...	18
AUG	
27...	15

* Samples and field data collected by U.S. Bureau of Reclamation.

BEST DOCUMENT AVAILABLE

COLORADO RIVER MAIN STEM

09423050 COLORADO RIVER LAGOON NORTH OF RIVIERA, AZ

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
OCT								
18...	1245	1090	7.7	23.0	320	80	29	100

DATE	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY FIELD (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)
OCT								
18...	2.4	5.7	120	320	90	8.2	706	.11

09423060 COLORADO RIVER BELOW LAGOON NORTH OF RIVIERA, AZ

WATER QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)
OCT							
18...	1200	1080	7.7	17.5	370	97	32

DATE	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY FIELD (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)
OCT							
18...	100	2.3	5.7	120	320	88	.11

COLORADO RIVER BASIN

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

09420600 LAKE MEAD AT ICEBERG CANYON, AZ-NV
(RIVER MILE 295.0; LAT 36°11', LONG 114°04'; SECCHI DISK TRANSPARENCY 28 FEET)*

DATE	DEPTH (FT)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	FIELD PH (UNITS)	WATER TEMPER-ATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	ALKALINITY, TOTAL (MG/L AS $CACO_3$)
OCT						
16...	0	1100	8.4	24.5	8.6	93
16...	10	1090	8.4	24.5	8.6	93
16...	25	1080	8.6	25.0	8.6	93
16...	50	1010	8.4	24.0	8.7	101
16...	75	940	8.3	20.5	9.2	116
16...	78	970	8.2	18.5	9.2	114

09420650 LAKE MEAD AT SANDY POINT, AZ
(RIVER MILE 295.0; LAT 36°07', LONG 114°07'; SECCHI DISK TRANSPARENCY 27 FEET)*

DATE	DEPTH (FT)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	FIELD PH (UNITS)	WATER TEMPER-ATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	ALKALINITY, TOTAL (MG/L AS $CACO_3$)
OCT						
15...	0	960	8.1	25.5	8.4	98
15...	10	1000	8.4	25.5	8.0	97
15...	25	1040	8.4	25.5	8.1	96
15...	50	980	8.5	24.0	8.2	96
15...	75	940	8.5	23.5	8.2	96
15...	100	940	8.3	21.0	8.5	110
15...	150	900	8.0	19.0	5.5	110
15...	200	900	--	16.5	--	--
15...	218	1010	7.8	12.0	4.1	110

09420700 LAKE MEAD AT VIRGIN CANYON, AZ-NV
(RIVER MILE 305.3; LAT 36°16', LONG 114°24'; SECCHI DISK TRANSPARENCY 30 FEET)*

DATE	DEPTH (FT)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	FIELD PH (UNITS)	WATER TEMPER-ATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	ALKALINITY, TOTAL (MG/L AS $CACO_3$)
OCT						
16...	0	1100	8.5	26.0	8.4	93
16...	10	1100	8.6	25.5	8.4	93
16...	25	1100	8.5	25.5	8.4	93
16...	50	975	8.4	25.5	7.2	105
16...	75	900	8.2	24.0	7.2	115
16...	100	920	8.2	21.5	7.8	114
16...	150	935	7.9	18.5	6.1	109
16...	200	935	7.9	16.0	6.6	109
16...	250	950	7.8	14.5	5.8	115
16...	295	1000	7.8	13.0	5.4	115
16...	310	--	7.8	--	5.8	135

09420750 LAKE MEAD NEAR OVERTON BEACH, NV
(RIVER MILE 27.5; LAT 36°27', LONG 114°21'; SECCHI DISK TRANSPARENCY 4 FEET)*

DATE	DEPTH (FT)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	FIELD PH (UNITS)	WATER TEMPER-ATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	ALKALINITY, TOTAL (MG/L AS $CACO_3$)
OCT						
17...	0	1200	8.3	23.5	7.6	93
17...	5	1200	--	23.5	--	--
17...	10	1190	8.4	23.5	7.7	93

09420800 LAKE MEAD AT OVERTON ISLANDS, NV
(RIVER MILE [illegible]; LAT 36°01', LONG 114°12'; SECCHI DISK TRANSPARENCY 30 FEET)*

DATE	DEPTH (FT)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	FIELD PH (UNITS)	WATER TEMPER-ATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	ALKALINITY, TOTAL (MG/L AS $CACO_3$)
OCT						
17...	0	1110	8.4	25.5	7.6	90
17...	10	1120	8.4	25.5	8.2	93
17...	25	1120	8.5	25.0	8.3	93
17...	75	940	8.1	24.0	5.2	108
17...	100	950	8.0	21.5	5.4	108
17...	125	1000	8.0	20.0	4.6	108
17...	175	980	7.8	17.0	5.5	100
17...	225	1000	7.9	15.0	6.4	104
17...	275	1060	7.9	13.0	6.5	100
17...	300	1040	7.9	13.0	6.5	108

09420850 LAKE MEAD AT BOULDER CANYON, AZ-NV
(RIVER MILE 334.6; LAT 36°08', LONG 114°17'; SECCHI DISK TRANSPARENCY 31 FEET)*

DATE	DEPTH (FT)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	FIELD PH (UNITS)	WATER TEMPER-ATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	ALKALINITY, TOTAL (MG/L AS $CACO_3$)
OCT						
18...	0	1140	8.3	24.5	8.5	88
18...	5	1140	--	25.0	--	--
18...	10	1140	8.4	25.0	8.5	88
18...	15	1140	--	25.0	--	--
18...	20	1140	--	25.5	--	--
18...	25	1140	8.5	25.5	8.5	86
18...	30	1140	--	25.5	--	--
18...	40	1140	--	25.0	--	--
18...	50	1140	--	24.5	--	--
18...	60	990	--	23.5	--	--
18...	70	1000	--	22.0	--	--
18...	75	1020	8.3	20.5	5.3	103
18...	80	1020	--	20.0	--	--
18...	90	1020	--	19.5	--	--
18...	100	1040	7.9	18.5	5.4	106
18...	125	1070	7.8	16.5	4.8	103
18...	150	1060	--	15.0	--	--
18...	175	1060	7.8	14.0	6.4	103
18...	200	1080	--	13.0	--	--
18...	225	1080	7.8	13.0	7.2	100
18...	250	1080	--	12.0	--	--
18...	275	1080	8.0	12.0	7.4	100
18...	300	1080	--	12.0	--	--
18...	325	1080	7.8	11.5	6.4	100
18...	350	1080	--	11.5	--	--
18...	375	1090	7.8	11.5	6.3	100
18...	400	1100	--	11.5	--	--
18...	425	1050	7.6	11.5	6.2	101
18...	430	1050	7.8	11.5	--	115

* FIELD DETERMINATIONS BY U.S. BUREAU OF RECLAMATION.

CARSON RIVER BASIN

10305500 EAST FORK CARSON RIVER NEAR MARKLEEVILLE, CA

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980*

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER ATURE, WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)
APR								
29...	1050	E1130	86	7.5	6.0	16	10.2	30
SEP								
18...	1155	E123	107	8.1	15.0	.00	8.4	38

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY FIELD (MG/L AS CACO3)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
APR								
29...	9.0	2.0	4.0	.3	1.0	38	1.0	59.0
SEP								
18...	10	3.0	6.0	.4	1.5	43	2.0	83.0

* Data from Calif. Dept. of Water Resources.
E: ESTIMATED.

09418500 MEADOW VALLEY WASH NEAR CALIENTE, NV (LAT 37 33 20 LONG 114 33 50)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, WATER (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, WATER (DEG C)
OCT 1979					APR 1980				
09...	1415	2.4	860	20.0	21...	1400	14	763	18.0
NOV					MAY				
26...	1445	5.8	930	--	21...	1245	4.7	831	23.5
DEC					JUL				
19...	0920	5.6	860	3.0	24...	1045	2.8	815	24.0
JAN 1980					AUG				
28...	1345	10	1020	10.0	21...	1345	1.8	756	25.5
FEB					SEP				
20...	1600	535	237	--	24...	0900	3.1	818	12.5
MAR									
25...	1400	23	837	17.0					

09419000 MUDDY RIVER NEAR GLENDALE, NV (LAT 36 38 35 LONG 114 32 20)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, WATER (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, WATER (DEG C)
OCT 1979					APR 1980				
03...	1245	34	--	23.0	03...	1430	41	1560	20.0
NOV					MAY				
05...	1430	38	1290	18.5	06...	0930	38	--	24.0
DEC					JUN				
05...	1230	43	1230	16.5	04...	1045	31	1630	23.5
JAN 1980					JUL				
03...	1335	52	1470	16.5	31...	0830	31	--	27.0
FEB					SEP				
06...	1200	53	--	20.0	04...	0945	29	1420	23.0
MAR									
05...	1430	48	1500	19.5					

10244720 FRANKLIN RIVER NEAR ARTHUR, NV (LAT 40 49 25 LONG 115 08 10)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, WATER (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, WATER (DEG C)
APR 1980					JUL 1980				
10...	1315	3.7	166	6.5	22...	1110	13	111	15.0
MAY					SEP				
05...	1245	66	53	10.0	18...	1315	2.0	219	17.0
JUN									
25...	1140	45	70	11.0					

10244745 OVERLAND CREEK NEAR RUBY VALLEY, NV (LAT 40 27 30 LONG 115 23 30)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, WATER (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, WATER (DEG C)
APR 1980					JUL 1980				
04...	1100	5.3	78	4.5	22...	1355	16	57	15.0
MAY					SEP				
05...	1550	95	55	6.0	18...	1505	2.2	80	14.0
JUN									
25...	1415	57	55	12.0					

10245900 PINE CREEK NEAR BELMONT, NV (LAT 38 47 40 LONG 116 51 13)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, WATER (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, WATER (DEG C)
OCT 1979					APR 1980				
03...	1200	2.5	71	9.5	08...	1500	1.5	77	4.5
NOV					MAY				
20...	1225	1.9	72	1.0	20...	0700	13	64	4.5
DEC					JUL				
18...	1145	1.7	71	2.0	15...	1600	7.1	62	11.0
JAN , 1980					SEP				
23...	1230	1.5	71	.5	17...	0930	2.6	70	9.0
FEB									
26...	1230	1.5	71	3.5					

10245910 MOSQUITO CREEK NEAR BELMONT, NV (LAT 38 48 22 LONG 116 40 43)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, WATER (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, WATER (DEG C)
OCT , 1979					FEB , 1980				
03...	1400	.88	109	10.0	26...	1410	.73	111	4.0
NOV					APR				
20...	1340	.75	119	1.0	08...	1615	.83	122	4.5
DEC					JUL				
18...	1310	1.3	108	4.0	16...	1515	3.9	102	13.5
JAN , 1980					SEP				
23...	1400	.53	--	.5	17...	1030	1.4	104	9.0

10245925 STONEBERGER CREEK NEAR AUSTIN, NV (LAT 39 08 24 LONG 116 36 05)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, WATER (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, WATER (DEG C)
OCT , 1979					APR , 1980				
03...	0955	.57	398	9.0	08...	1100	.94	397	7.0
NOV					MAY				
20...	1055	.52	434	1.5	19...	1600	1.7	337	15.0
DEC					JUL				
18...	1000	.52	398	3.0	15...	1430	.67	331	17.5
JAN , 1980					SEP				
23...	1015	.51	384	1.0	16...	1225	.13	[illegible]	15.0

10246846 LITTLE CURRANT CREEK NEAR CURRANT, NV (LAT 38 50 50 LONG 115 22 00)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)
OCT , 1979					MAY 1980				
25...	0835	1.2	396	3.0	23...	0830	42	339	7.5
NOV					JUN				
29...	0810	.89	399	1.5	26...	0845	15	357	8.0
JAN , 1980					JUL				
24...	1000	.63	402	2.5	24...	0825	5.7	373	9.0
FEB					AUG				
22...	0900	1.1	400	3.0	18...	1500	3.3	357	13.0
MAR					SEP				
21...	0845	4.9	359	3.5	15...	1335	2.6	360	11.5
APR									
25...	1045	21	348	--					

10249190 WILLOW CREEK NEAR WARM SPRINGS, NV (LAT 38 34 35 LONG 116 35 05)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)
DEC , 1979					MAY , 1980				
18...	1500	.04	270	1.0	20...	1315	2.4	171	14.5
FEB , 1980					JUL				
27...	1140	.79	217	5.5	16...	1030	.23	246	15.0
APR									
09...	1130	2.2	162	7.0					

10249200 MCCLUSKY CREEK NEAR AUSTIN, NV (LAT 39 56 23 LONG 116 31 14)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)
MAR , 1980					JUL , 1980				
18...	1240	.75	406	.0	09...	1430	.16	496	25.5
26...	1305	.43	476	5.0	AUG				
JUN					20...	1440	.10	500	21.5
11...	1145	1.1	414	19.0					

10249280 FINGSTON CREEK BELOW COUGAR CANYON NEAR AUSTIN, NV (LAT 39 12 45 LONG 117 06 45)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)
OCT , 1979					APR , 1980				
02...	1635	7.3	402	11.5	23...	1350	6.1	382	8.0
NOV					MAY				
27...	1200	5.7	410	--	20...	1440	8.2	401	12.5
JAN , 1980					JUN				
22...	1135	4.8	419	3.0	24...	1600	12	417	12.5
FEB					JUL				
20...	1310	5.0	396	5.0	22...	1345	12	431	12.5
MAR					SEP				
18...	1155	4.3	371	5.5	15...	1630	7.4	411	10.0

10288500 WALKER LAKE NEAR HAWTHORNE, NV (LAT 38 35 05 LONG 118 42 15)

DATE	TIME	ELE-VATION ABOVE NGVD (FEET)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	ELE-VATION ABOVE NGVD (FEET)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)
OCT , 1979					MAY , 1980				
22...	0850	3954.7	--	15.5	19...	0830	3955.2	14800	17.0
NOV					JUN				
26...	1020	3954.0	14600	10.5	23...	0900	3955.5	14900	17.5
DEC					JUL				
06...	1200	3954.0	14300	10.0	20...	0845	3956.7	14700	26.0
FEB , 1980					AUG				
19...	0910	3954.0	15400	6.0	18...	0930	3956.8	14700	23.5
MAR					SEP				
17...	0920	3954.3	15400	7.5	18...	1540	3956.6	14600	21.0
APR									
22...	0915	3954.3	15300	10.0					

10293500 EAST WALKER RIVER ABOVE STROSNIDER DITCH NEAR MASON, NV (LAT 38 48 45 LONG 119 02 50)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)
OCT , 1979					APR , 1980				
15...	1230	69	244	14.0	10...	1030	127	247	11.0
MAR , 1980					JUN				
17...	1400	168	248	9.0	18...	1330	469	182	15.5

10295500 LITTLE WALKER RIVER NEAR BRIDGEPORT, CA (LAT 38 21 39 LONG 119 26 35)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)
OCT , 1979					APR , 1980				
29...	1400	15	258	8.0	28...	1415	106	132	8.0
NOV					MAY				
26...	1410	16	259	5.5	28...	1350	130	106	9.5
DEC					JUN				
27...	1405	18	264	.5	25...	1520	240	61	12.5
JAN , 1980					JUL				
28...	1500	26	224	1.5	28...	1545	161	71	15.0
FEB					AUG				
26...	1445	30	235	6.5	25...	1155	52	141	13.0
MAR					SEP				
25...	1330	38	200	2.5	29...	1130	28	183	6.5

BEST DOCUMENT AVAILABLE

10296500 WEST WALKER RIVER NEAR COLEVILLE, CA (LAT 38 30 55 LONG 119 27 15)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)
OCT , 1979					APR , 1980				
29...	1130	66	141	6.0	28...	1110	694	81	6.5
NOV					MAY				
26...	1100	71	143	4.5	28...	1115	598	77	6.5
DEC					JUN				
26...	1140	53	173	1.5	25...	2000	1320	43	12.5
JAN , 1980					JUL				
28...	1245	129	126	2.0	28...	1120	899	40	11.5
FEB					AUG				
26...	1210	126	130	5.0	25...	0950	201	90	11.0
MAR					SEP				
25...	1100	82	149	1.5	29...	0730	86	126	6.0

10297500 WEST WALKER RIVER AT HOYE BRIDGE NEAR WELLINGTON, NV (LAT 38 43 40 LONG 119 25 40)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)
NOV , 1979					JUN , 1980				
29...	1015	25	283	6.0	19...	1245	1180	125	18.0
MAR , 1980					JUL				
05...	1020	25	--	7.5	18...	1100	1040	94	11.0
APR									
10...	1310	127	213	11.0					

10300000 WEST WALKER RIVER NEAR HUDSON, NV (LAT 38 48 35 LONG 119 13 35)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)
OCT , 1979					JUN , 1980				
15...	1040	78	382	11.0	19...	1015	891	156	18.0
MAR , 1980					JUL				
17...	1100	56	495	8.0	18...	1345	675	143	12.5

10300600 WALKER RIVER NEAR MASON, NV (LAT 38 55 11 LONG 119 11 20)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)
OCT , 1979					JUN , 1980				
16...	1040	103	420	13.5	18...	1200	936	185	15.0
NOV					JUL				
29...	1315	54	550	6.0	17...	1110	892	163	17.0
MAR , 1980					AUG				
05...	1200	139	458	6.5	26...	1125	425	231	19.5
MAY					SEP				
09...	1110	1220	212	8.5	26...	1150	293	272	16.0

10301710 WALKER RIVER BELOW WEBER RESERVOIR NEAR SCHURZ, NV (LAT 39 02 35 LONG 118 51 28)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)
OCT , 1979					MAY , 1980				
26...	1040	8.0	482	12.0	29...	0945	63	314	13.5
NOV					JUN				
30...	1055	7.1	545	4.5	26...	0820	52	323	18.5
DEC					JUL				
31...	1120	28	583	3.0	24...	1000	113	250	21.5
JAN , 1980					AUG				
23...	1110	173	586	3.5	22...	1100	132	283	21.0
FEB					SEP				
27...	0950	58	591	6.0	26...	1045	123	318	16.5
MAR									
31...	1020	57	386	8.5					

10308200 EAST FORK CARSON RIVER BELOW MARKLEEVILLE CREEK NEAR MARKLEEVILLE, CA (LAT 38 42 50 LONG 119 45 50)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)
NOV , 1979					JUL , 1980				
08...	1215	81	117	5.5	28...	1125	475	67	12.5
FEB , 1980					AUG				
06...	1030	233	133	3.5	28...	0930	176	98	9.5
APR					SEP				
03...	0945	229	150	6.0	24...	0945	110	109	7.5
JUN									
03...	1415	1010	72	9.5					

10309100 EAST FORK CARSON RIVER AT MINDEN, NV (LAT 38 56 48 LONG 119 46 45)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)
OCT , 1979					MAR , 1980				
24...	1100	17	206	13.0	12...	1545	229	193	5.0
					26...	1135	214	193	5.5
NOV					APR				
21...	1450	20	241	3.0	25...	1010	607	119	8.0
DEC					JUN				
21...	0935	60	215	2.5	30...	1400	1180	54	9.0
JAN , 1980					JUL				
17...	1600	658	131	4.0	21...	1030	259	79	9.0
30...	1500	208	186	2.0	SEP				
FEB					24...	1220	2.6	224	16.5
12...	1215	175	175	3.5					
22...	1030	454	175	3.0					

10310405 CARSON RIVER AT GENOA, NV (LAT 38 59 52 LONG 119 49 21)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)
NOV , 1979				
21...	1140	49	266	.0
DEC				
21...	1045	90	226	2.0
FEB , 1980				
12...	1130	187	190	3.5
MAR				
26...	1235	206	214	5.5
JUL , 1980				
07...	1510	710	82	11.5
21...	1410	279	110	15.0
AUG				
27...	1215	28	311	20.5
SEP				
24...	1550	51	258	19.5

10311000 CARSON RIVER NEAR CARSON CITY, NV (LAT 39 06 30 LONG 119 42 40)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)
OCT , 1979				
01...	1600	21	502	21.0
17...	1505	54	386	15.5
NOV				
19...	1555	157	280	3.0
29...	1320	144	277	4.5
DEC				
12...	0900	135	320	.0
27...	1520	191	--	3.0
JAN , 1980				
13...	1100	3160	163	5.0
17...	0940	1510	180	5.0
FEB				
11...	1200	362	243	5.0
12...	0830	325	251	3.5
MAR				
04...	1635	579	273	3.0
11...	0830	482	275	6.5
APR				
04...	1135	445	251	10.0
15...	0925	874	151	9.5
22...	0930	1340	125	6.5
MAY , 1980				
01...	0850	1700	109	9.5
06...	1030	2630	88	10.0
21...	1025	2390	81	11.5
JUN				
02...	0920	1180	128	11.0
05...	0900	996	136	9.5
18...	1000	1700	91	14.5
29...	1100	1670	91	15.0
JUL				
02...	1340	1980	86	14.5
16...	0910	493	140	18.0
29...	1100	280	210	19.0
AUG				
08...	1235	119	351	23.0
27...	1305	73	427	21.5
SEP				
12...	0920	147	338	16.0
26...	1330	110	373	14.0

10311100 KINGS CANYON CREEK NEAR CARSON CITY, NV (LAT 39 09 14 LONG 119 48 24)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)
OCT , 1979				
17...	1410	1.1	73	--
JAN , 1980				
12...	1015	E4.7	119	4.5
FEB				
12...	1000	1.2	121	1.0
MAR				
10...	1530	3.2	140	5.5
APR				
04...	1700	1.2	153	6.0
JUN , 1980				
05...	1400	1.7	75	9.0
JUL				
01...	1330	2.6	65	10.5
31...	1050	2.3	67	10.0
SEP				
03...	1420	2.1	69	9.5
29...	1340	2.0	67	8.0

10311200 ASH CANYON CREEK NEAR CARSON CITY, NV (LAT 39 10 35 LONG 119 48 16)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)
OCT , 1979				
17...	1220	1.6	82	--
JAN , 1980				
12...	1100	16	74	4.0
FEB				
11...	1400	2.2	86	2.0
MAR				
10...	1615	2.5	93	4.5
APR				
04...	1500	2.3	97	6.0
JUN , 1980				
05...	1400	5.5	65	8.5
JUL				
01...	1300	5.0	62	11.5
31...	0900	3.4	71	11.0
SEP				
03...	1100	2.7	73	7.5
29...	1200	2.2	75	7.0

10312150 CARSON RIVER BELOW LAHONTAN RESERVOIR NEAR FALLON, NV (LAT 39 27 50 LONG 119 02 45)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)
OCT , 1979				
19...	1335	346	251	17.0
NOV				
20...	1230	6.2	333	8.0
DEC				
13...	1130	6.6	333	5.0
JAN , 1980				
01...	1345	4.5	370	7.5
07...	1345	4.5	370	7.5
14...	1115	4.5	374	8.0
23...	1320	564	260	7.0
FEB				
06...	1030	672	271	5.0
13...	1030	664	271	4.5
MAR				
04...	1400	412	277	6.5
12...	1050	415	276	6.5
APR				
02...	1330	645	276	7.5
16...	1315	893	282	9.5
23...	1050	893	281	10.0
MAY , 1980				
02...	1055	902	281	13.0
07...	1155	964	282	11.0
14...	1140	1420	280	12.5
20...	1600	1490	281	13.0
JUN				
03...	1115	1570	266	14.0
04...	1245	1570	265	--
17...	1250	1280	255	15.0
30...	1440	991	263	17.0
JUL				
15...	1210	1080	204	18.0
AUG				
06...	1015	1060	210	20.0
11...	1320	978	210	20.0
SEP				
03...	1445	860	208	20.0
17...	1045	500	209	19.0

E: ESTIMATED.

BEST DOCUMENT AVAILABLE

10312210 STILLWATER DIVERSION CANAL NEAR FALLON, NV (LAT 39 28 25 LONG 118 35 50)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)
OCT , 1979					APR , 1980				
03...	1320	26	1420	17.0	02...	1100	25	1160	8.0
NOV					JUN				
01...	1400	17	1010	9.0	06...	1430	197	574	17.0
DEC					AUG				
04...	1230	32	1040	5.5	07...	1315	85	644	24.0
JAN , 1980					SEP				
03...	1400	12	2000	3.0	02...	1400	79	510	21.0
28...	1400	50	736	2.5					
MAR									
04...	1120	12	1510	8.5					

10312260 INDIAN LAKES CANAL NEAR FALLON, NV (LAT 39 34 30 LONG 118 41 30)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)
OCT , 1979					MAR , 1980				
02...	1325	25	530	20.0	03...	1000	19	308	6.5
NOV					APR				
01...	1040	25	695	9.0	01...	1015	39	339	7.5
DEC					JUN				
03...	1225	29	740	6.0	03...	1000	30	275	13.5
JAN , 1980					SEP				
03...	1025	25	840	4.0	02...	1005	35	413	20.0
28...	1045	18	282	2.0					

10312265 INDIAN LAKES CANAL BELOW EAST LAKE NEAR STILLWATER, NV (LAT 39 36 21 LONG 118 34 46)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)
OCT , 1979					MAR , 1980				
03...	1015	11	675	13.5	03...	1330	18	502	10.0
NOV					APR				
01...	1230	15	611	11.0	02...	0925	14	765	8.0
DEC					JUL				
04...	1020	23	850	4.0	07...	1240	2.5	579	27.0
JAN , 1980					AUG				
03...	1145	19	695	4.0	07...	1100	9.1	611	22.5
28...	1125	13	788	1.5					

10312270 PAIUTE DRAIN AT WILDLIFE ENTRANCE NEAR STILLWATER, NV (LAT 39 36 33 LONG 118 33 19)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)
OCT , 1979					APR , 1980				
03...	1115	9.7	1310	15.0	02...	0920	18	473	8.0
NOV					JUN				
01...	1310	15	620	9.0	03...	1230	11	1430	13.5
DEC					JUL				
03...	1530	[illegible]	1270	9.0	07...	1330	4.5	1500	24.0
JAN , 1980					AUG				
03...	1240	25	972	3.5	07...	1200	26	673	23.0
28...	1205	19	866	2.0	SEP				
MAR					02...	1210	8.4	693	23.0
04...	1000	26	636	8.0					

10312280 CARSON RIVER BELOW FALLON, NV (LAT 39 40 10 LONG 118 39 20)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)
OCT , 1979					APR , 1980				
02...	1435	4.7	567	--	01...	1135	106	346	8.0
NOV					JUN				
01...	1435	20	335	8.0	06...	1145	635	327	14.5
DEC					JUL				
03...	1450	1.5	--	9.0	07...	1120	23	718	21.0
JAN , 1980					AUG				
03...	1100	.12	269	2.5	07...	--	14	654	20.0
MAR					SEP				
03...	1100	409	315	7.0	02...	1100	45	424	19.0

10315500 MARYS RIVER ABOVE HOT SPRINGS CREEK NEAR DEETH, NV (LAT 41 15 10 LONG 115 15 20)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)
MAR , 1980					JUL , 1980				
11...	1305	62	228	5.5	08...	1115	62	258	17.5
31...	1255	60	--	4.0	AUG				
MAY					14...	1230	4.9	352	21.5
01...	1515	430	162	12.5					
JUN									
06...	1800	32[illegible]	221	15.0					

10316500 LAMOILLE CREEK NEAR LAMOILLE, NV (LAT 40 41 30 LONG 115 28 30)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)
FEB , 1980					JUN , 1980				
29...	1330	11	183	5.5	15...	1315	246	127	8.0
MAR					SEP				
24...	1255	9.5	190	3.0	17...	1450	13	158	14.0
MAY									
05...	1600	239	125	7.0					

10317400 NORTH FORK HUMBOLDT RIVER NEAR NORTH FORK, NV (LAT 41 34 30 LONG 115 54 40)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, WATER (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, WATER (DEG C)
APR , 1980					JUL , 1960				
09...	1055	6.7	134	6.0	02...	1415	12	133	14.0
MAY					AUG				
08...	0925	51	--	5.0	13...	1450	1.5	223	18.5

10317420 MAHALA CREEK NEAR TUSCARORA, NV (LAT 41 20 16 LONG 115 54 32)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, WATER (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, WATER (DEG C)
APR , 1980					JUN , 1980				
08...	1340	1.5	473	10.0	09...	1230	7.5	381	16.0
22...	1305	11	310	7.0	JUL				
MAY					09...	1435	.80	465	20.0
06...	1150	10	317	11.5					

10317430 MAHALA CREEK AT STATE HIGHWAY 225 NEAR TUSCARORA, NV (LAT 41 17 51 LONG 115 47 13)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, WATER (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, WATER (DEG C)
FEB , 1980					MAY , 1980				
26...	1520	2.6	504	9.0	06...	1010	22	504	11.5
APR					JUN				
09...	1345	1.3	576	14.0	09...	1500	12	471	22.0
21...	1345	14	536	13.0					

10317450 GANCE CREEK NEAR TUSCARORA, NV (LAT 41 17 45 LONG 115 57 16)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, WATER (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, WATER (DEG C)
APR , 1980					JUL , 1980				
08...	1130	4.0	345	8.0	08...	1320	4.6	337	16.5
22...	1100	31	206	6.0	SEP				
MAY					04...	1130	1.8	367	14.0
06...	1220	25	209	10.0					
JUN									
05...	0955	27	245	6.5					

10317460 GANCE CREEK AT STATE HIGHWAY 225 NEAR TUSCARORA, NV (LAT 41 15 08 LONG 115 47 44)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, WATER (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, WATER (DEG C)
FEB , 1980					JUN , 1980				
26...	1250	5.6	427	6.0	05...	1220	30	391	12.5
APR					JUL				
09...	1505	1.1	468	11.0	09...	1245	2.5	457	18.0
21...	1145	30	456	11.0					
MAY									
06...	0920	31	391	--					

10317500 - NORTH FORK HUMBOLDT RIVER AT DEVILS GATE NEAR HALLECK, NV (LAT 41 10 50 LONG 115 29 35)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, WATER (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, WATER (DEG C)
MAR , 1980					JUL , 1980				
11...	1150	110	294	6.0	08...	1505	66	290	23.0
31...	1000	64	278	2.0	AUG				
APR					14...	1535	5.7	344	29.0
30...	1120	269	245	10.5					
JUN									
06...	1310	448	276	16.0					

10318500 HUMBOLDT RIVER NEAR ELKO, NV (LAT 40 56 00 LONG 115 38 00)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, WATER (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, WATER (DEG C)
FEB , 1980					JUN , 1980				
29...	0920	535	441	5.0	06...	1020	2510	500	13.5
APR					AUG				
01...	0840	190	473	4.0	01...	1005	110	485	22.5
23...	1340	483	318	13.5	SEP				
MAY					02...	1115	14	520	16.0
12...	1300	1730	417	6.5					
16...	1330	1440	506	12.5					
28...	1445	2380	512	12.5					

10320000 SOUTH FORK HUMBOLDT RIVER ABOVE DIXIE CREEK NEAR ELKO, NV (LAT 40 41 05 LONG 115 48 45)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, WATER (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, WATER (DEG C)
FEB , 1980					JUN , 1980				
13...	1155	28	332	.5	10...	1600	854	266	18.0
29...	1020	66	459	--	JUL				
APR					18...	0910	195	258	--
01...	1215	66	398	5.5	SEP				
MAY					19...	1225	20	442	17.0
05...	1345	314	182	12.5					
12...	1045	570	281	4.5					

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10322500 HUMBOLDT RIVER AT PALISADE, NV (LAT 40 36 25 LONG 116 12 05)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, WATER (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, WATER (DEG C)
FEB , 1980					JUN , 1980				
28...	1115	814	500	6.5	23...	1250	2210	369	--
MAR					JUL				
28...	1245	384	500	8.0	30...	1210	212	458	24.0
APR					AUG				
25...	1335	1010	321	13.0	25...	1155	65	567	18.5
JUN					SEP				
03...	1310	3730	421	12.0	30...	1135	66	555	14.5
15...	1135	2670	313	16.0					

10323500 HUMBOLDT RIVER NEAR ARGENTA, NV (LAT 40 40 45 LONG 116 38 45)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, WATER (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, WATER (DEG C)
FEB , 1980					JUN , 1980				
26...	1320	939	512	8.0	13...	1520	2840	466	19.0
APR					JUL				
07...	1145	363	505	8.5	23...	1335	372	460	24.5
MAY					SEP				
06...	0910	885	363	16.0	03...	1405	29	557	23.5
19...	1630	1770	482	18.5					

10324500 ROCK CREEK NEAR BATTLE MOUNTAIN, NV (LAT 40 49 30 LONG 116 34 45)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, WATER (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, WATER (DEG C)
MAR , 1980					JUN , 1980				
06...	1500	136	259	--	12...	0855	120	284	16.0
APR					JUL				
07...	0950	49	259	5.0	23...	1105	9.4	397	23.0
MAY					SEP				
07...	1000	60	260	13.0	03...	1215	.40	431	21.5

10325000 HUMBOLDT RIVER AT BATTLE MOUNTAIN, NV (LAT 40 40 00 LONG 116 55 50)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, WATER (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, WATER (DEG C)
FEB , 1980					JUN , 1980				
27...	1300	1020	487	8.0	13...	1145	4340	527	18.5
APR					JUL				
07...	1430	392	519	--	23...	1620	404	478	25.0
MAY					AUG				
06...	1630	887	386	18.0	19...	1600	57	650	18.5
20...	1440	1940	543	20.5					

10325500 REESE RIVER NEAR IONE, NV (LAT 38 51 00 LONG 117 28 00)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, WATER (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, WATER (DEG C)
NOV , 1979					JUL , 1980				
19...	1000	3.8	97	1.0	17...	1230	11	78	17.0
JAN , 1980					SEP				
22...	1410	2.6	87	.5	18...	1200	3.1	86	16.5
FEB									
25...	1430	4.9	92	7.0					

10326800 FISH CREEK NEAR BATTLE MOUNTAIN, NV (LAT 40 10 16 LONG 117 12 23)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, WATER (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, WATER (DEG C)
MAR , 1980					JUN , 1980				
10...	1250	1.6	588	16.0	11...	1035	2.2	522	18.5
APR					JUL				
08...	0900	1.4	598	11.0	23...	1545	.60	603	27.5
MAY					AUG				
16...	1230	1.3	583	21.0	13...	1325	.94	597	27.5

10327500 HUMBOLDT RIVER AT COMUS, NV (LAT 40 59 33 LONG 117 19 00)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, WATER (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, WATER (DEG C)
MAR , 1980					JUN , 1980				
06...	1225	799	482	6.5	12...	1300	2760	794	18.0
APR					JUL				
08...	1215	384	539	10.0	23...	1305	505	531	25.0
MAY					SEP				
07...	0910	759	419	16.0	04...	1325	38	775	22.5
19...	1220	1320	653	18.0					

10328450 NORTH FORK LITTLE HUMBOLDT RIVER NEAR PARADISE VALLEY, NV (LAT 41 29 30 LONG 117 07 30)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, WATER (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, WATER (DEG C)
MAR , 1980					JUL , 1980				
03...	1300	27	171	6.5	15...	1425	2.8	231	24.0
APR					SEP				
01...	1445	7.0	193	7.5	09...	1625	.93	322	18.5
MAY									
13...	1245	71	125	11.5					

SUPPLEMENTAL WATER-QUALITY DATA FOR GAGING STATIONS

10328475 SOUTH FORK LITTLE HUMBOLDT RIVER NEAR PARADISE VALLEY, NV (LAT 41 27 00 LONG 117 06 00)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEKPER-ATURE, WATER (DEG C)
MAR , 1980					MAY , 1980				
03...	1145	23	296	6.0	13...	1130	52	255	9.0
APR					JUL				
01...	1315	8.8	294	6.0	15...	1230	6.3	236	22.5

10328500 LITTLE HUMBOLDT RIVER BELOW CHIMNEY DAM NEAR PARADISE VALLEY, NV (LAT 41 23 25 LONG 117 11 00)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEKPER-ATURE, WATER (DEG C)
MAR , 1980					JUN , 1980				
03...	1440	1.4	213	8.0	18...	1310	31	228	16.5
APR					JUL				
01...	1630	35	233	5.0	15...	1615	28	247	16.5
MAY					SEP				
13...	1330	61	215	--	10...	1120	1.9	294	18.5

10329000 LITTLE HUMBOLDT RIVER NEAR PARADISE VALLEY, NV (LAT 41 24 55 LONG 117 22 22)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEKPER-ATURE, WATER (DEG C)
MAR , 1980					MAY , 1980				
03...	1545	7.9	441	14.0	13...	1530	64	332	14.0
APR					SEP				
01...	1740	31	311	7.0	10...	1225	7.7	396	17.0

10329500 MARTIN CREEK NEAR PARADISE VALLEY, NV (LAT 41 32 00 LONG 117 25 40)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEKPER-ATURE, WATER (DEG C)
MAR , 1980					JUL , 1980				
03...	1700	57	141	9.0	16...	1100	14	177	--
APR					SEP				
03...	1515	26	157	11.5	10...	1405	6.0	247	21.0
MAY									
13...	1800	170	93	11.0					

10336715 MARLETTE CREEK NEAR CARSON CITY, NV (LAT 39 10 20 LONG 119 54 25)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEKPER-ATURE, WATER (DEG C)
OCT , 1979					JUN , 1980				
09...	1325	.04	57	9.5	24...	0940	2.8	41	8.5
DEC					JUL				
04...	1235	.03	53	6.5	30...	1105	1.1	43	20.0
APR , 1980					SEP				
04...	1330	2.7	42	3.0	11...	1110	.03	59	10.0

10348000 TRUCKEE RIVER AT RENO, NV (LAT 39 31 55 LONG 119 47 05)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEKPER-ATURE, WATER (DEG C)
OCT , 1979					MAY , 1980				
25...	1045	398	100	9.5	06...	1030	1630	79	8.5
DEC					29...	1200	1950	82	10.0
05...	1020	303	117	--	JUN				
JAN , 1980					26...	1130	590	89	12.5
07...	1020	318	135	5.0	JUL				
FEB					30...	0900	307	120	15.5
08...	1420	398	138	6.0	AUG				
MAR					29...	1550	247	130	14.5
07...	1430	671	135	5.5	SEP				
APR					22...	0930	243	115	10.5
02...	1200	472	130	7.0					

10348460 FRANKTOWN CREEK NEAR CARSON CITY, NV (LAT 39 12 12 LONG 119 52 17)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEKPER-ATURE, WATER (DEG C)
OCT , 1979					JUL , 1980				
09...	1505	1.4	60	11.5	09...	1000	3.1	49	12.5
DEC					30...	1200	2.3	53	20.0
07...	1040	1.7	57	2.5	SEP				
APR , 1980					11...	1415	2.0	57	16.0
16...	1[illegible]40	4.7	52	7.5					

10348700 WASHOE LAKE NEAR CARSON CITY, NV (LAT 39 16 30 LONG 119 47 35)

DATE	TIME	ELE-VATION ABOVE NGVD (FEET)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	ELE-VATION ABOVE NGVD (FEET)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)
FEB , 1980					JUN , 1980				
07...	1600	5025.1	—	3.0	25...	0745	5027.6	526	13.0
MAR					JUL				
06...	1545	5026.4	518	5.5	30...	0800	5026.9	630	21.0
APR					SEP				
01...	1000	—	596	6.0	02...	0900	5026.1	722	16.5
JUN					23...	0910	5025.9	742	12.5
02...	1000	—	441	10.0					

10348800 LITTLE WASHOE LAKE NEAR STEAMBOAT, NV (LAT 39 19 45 LONG 119 48 00)

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, WATER (DEG C)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, WATER (DEG C)
FEB , 1980					JUN , 1980				
07...	1530	5026.5	187	5.0	25...	0830	5027.4	263	15.5
MAR					JUL				
06...	0930	5026.8	208	5.0	29...	1400	5026.9	252	28.5
APR					SEP				
01...	1030	5026.7	240	7.0	02...	0945	5026.1	261	17.5
JUN					23...	1000	5025.8	276	14.5
02...	1045	5027.5	226	6.5					

10348900 GALENA CREEK NEAR STEAMBOAT, NV (LAT 39 21 43 LONG 119 49 37)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, WATER (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, WATER (DEG C)
JAN , 1980					JUN , 1980				
22...	1500	2.0	95	.0	02...	1600	19	62	7.0
FEB					25...	1330	32	48	8.5
07...	1400	1.2	103	.0	JUL				
MAR					29...	1635	12	55	17.0
06...	1345	1.8	98	2.5	SEP				
APR					02...	1200	9.8	63	10.0
01...	1610	1.4	110	4.5	23...	1230	8.1	66	6.5

10349300 STEAMBOAT CREEK AT STEAMBOAT, NV (LAT 39 22 40 LONG 119 44 33)

NOV , 1979					APR , 1980				
07...	0945	6.6	188	4.5	01...	1335	4.6	293	8.0
MAR , 1980									
04...	1030	8.7	232	5.0					

10352500 MC DERMITT CREEK NEAR MC DERMITT, NV (LAT 41 58 00 LONG 117 50 01)

MAR , 1980					JUL , 1980				
05...	0815	94	231	4.5	16...	1050	10	486	20.0
APR					SEP				
03...	0900	35	356	5.0	09...	1350	4.3	434	17.0
MAY									
15...	0900	120	220	9.0					

10353000 EAST FORK QUINN RIVER NEAR MC DERMITT, NV (LAT 41 59 00 LONG 117 35 00)

FEB , 1980					JUL , 1980				
27...	0900	57	105	4.5	16...	0920	4.9	196	17.0
APR					SEP				
03...	1115	29	132	7.5	09...	1515	2.1	217	19.0
MAY									
15...	1035	66	102	10.5					

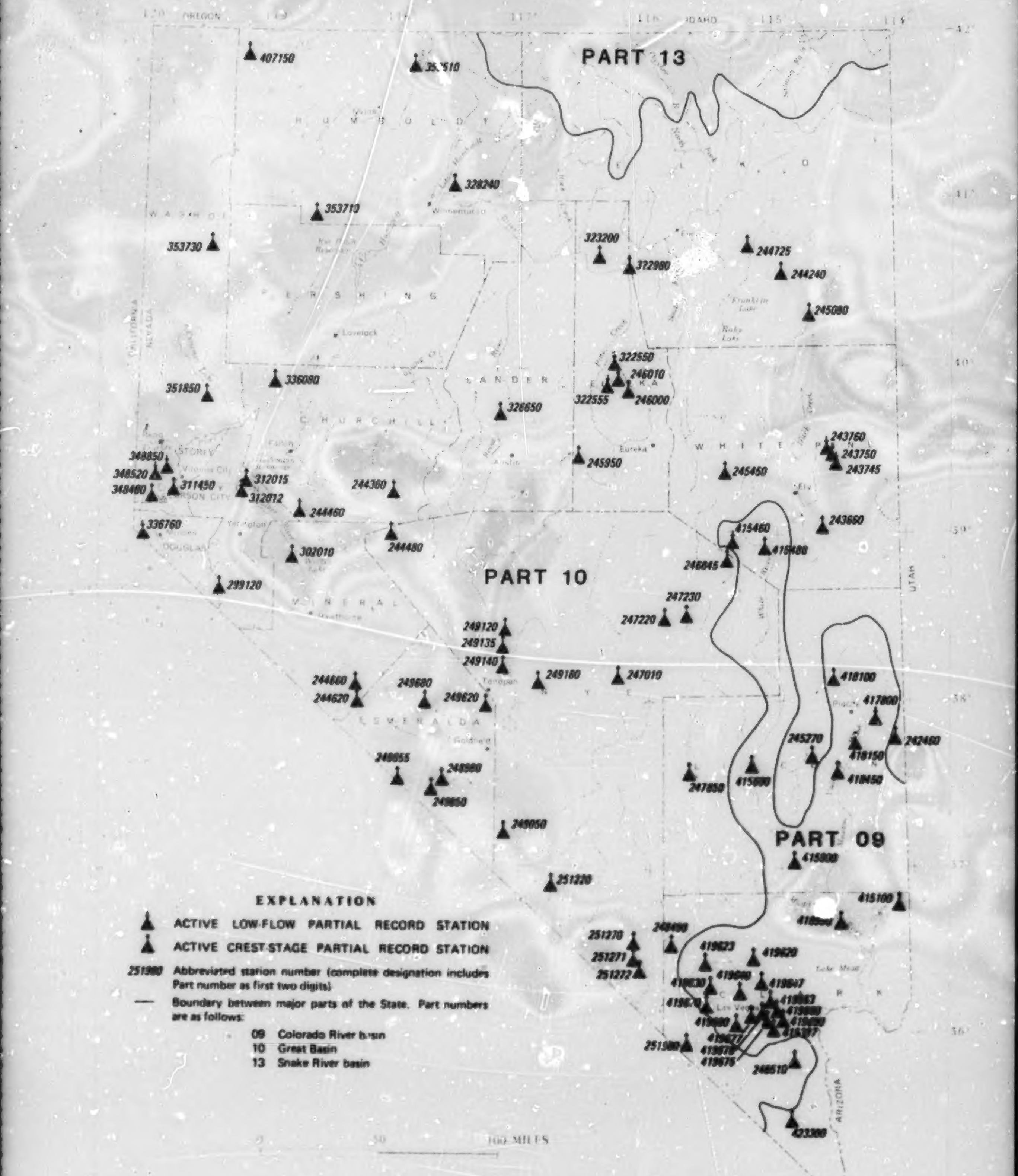
10353600 KINGS RIVER NEAR OROVADA, NV (LAT 41 54 25 LONG 118 18 30)

APR , 1980					JUL , 1980				
02...	1030	8.8	158	4.0	16...	1350	2.9	142	24.5
MAY					SEP				
14...	1355	25	109	9.0	10...	1540	1.7	163	16.5

10353700 LEONARD CREEK NEAR DENIO, NV (LAT 41 31 40 LONG 118 42 45)

MAR , 1980					JUL , 1980				
04...	1315	14	289	8.0	15...	1320	14	129	21.5
APR					SEP				
02...	1400	9.3	297	7.0	10...	1215	5.2	166	17.0
MAY									
14...	1040	29	148	8.5					

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, WATER (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, WATER (DEG C)
13161500 BRUNEAU RIVER AT ROWLAND, NV (LAT 41 56 00 LONG 115 40 25)									
MAR , 1980					JUN				
13...	1410	102	163	5.0	20...	1200	238	117	15.0
APR					JUL				
10...	1350	171	150	8.0	24...	1400	33	195	25.0
MAY					SEP				
08...	1700	491	--	10.0	16...	1325	21	235	17.5
13174500 OWYHEE RIVER NEAR GOLD CREEK, NV (LAT 41 41 15 LONG 115 50 38)									
APR , 1980					JUL				
03...	1320	.04	240	9.5	31...	1135	132	190	16.0
MAY					SEP				
30...	1120	96	181	9.5	26...	1335	70	202	14.0
JUN									
24...	1215	44	187	15.5					
13176000 OWYHEE RIVER ABOVE CHINA DIV DAM NEAR OWYHEE, NV (LAT 41 55 20 LONG 116 04 10)									
APR , 1980					AUG				
03...	1110	105	188	5.0	13...	1130	131	204	17.0
28...	1355	613	103	9.5					
JUL									
02...	1200	198	217	16.5					
13177800 SOUTH FORK OWYHEE RIVER NEAR WHITEROCK, NV (LAT 41 48 00 LONG 116 29 00)									
MAR , 1980					JUL				
12...	1310	184	296	4.0	10...	1310	81	401	19.5
APR					SEP				
02...	1050	164	302	5.0	02...	1350	26	446	20.0
MAY									
09...	0930	542	310	11.0					


PART 13
PART 10
PART 09
OREGON
IDAHO
UTAH
ARIZONA
CALIFORNIA
NEVADA
HUMBOLDT
WASHOE
PERSHING
LANDER
EUREKA
ELKO
CHURCHILL
STOREY
CARSON CITY
DOUGLAS
MINERAL
WHITE PINE
NYE
ESMERALDA
LINCOLN
CLARK
Winnemucca
Lovelock
Eureka
Ely
Austin
Tonopah
Goldfield
Las Vegas
Yerington
Lake Mead
407150
353510
328240
353710
353730
323200
322880
244725
244240
245080
322550
246010
322555
246000
351850
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245450
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348520
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247220
249120
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249140
249180
247010
244660
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249620
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417800
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418150
418450
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419660
419647
419670
419663
419680
419690
419697
419671
251980
419675
246510
423300
EXPLANATION
ACTIVE LOW-FLOW PARTIAL RECORD STATION
ACTIVE CREST-STAGE PARTIAL RECORD STATION
251980 Abbreviated station number (complete designation includes Part number as first two digits)
Boundary between major parts of the State. Part numbers are as follows:
09 Colorado River basin
10 Great Basin
13 Snake River basin
0
50
100 MILES
120°
119°
118°
117°
116°
115°
114°
42°
41°
40°
39°
38°
37°
36°

FIGURE 6.–Streamflow partial-record stations listed in this report.

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As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analysis, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or flood-flow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give a better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at partial-record stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations, and the second is a table of annual maximum stage and discharge at crest-stage stations. Discharge measurements made at miscellaneous sites for both low and high flow are given in a third table.

Low-flow partial-record stations

Measurements of streamflow in the State at low-flow partial-record stations are given in the following table. Generally, this category is used mostly for low-flow analysis when streamflow is primarily from ground-water storage so that the low-flow potentiality of the stream may be obtained by comparison with a nearby stream where continuous records are available. In this State, measurements are included at various stages so that a general picture of the annual streamflow characteristics may be obtained by similiar comparison. The column headed "Period of record" shows the water years in which measurements were made at the same, or practically the same, site.

Discharge measurements made at low-flow partial-record stations during water year 1980

Station no.	Station name	Location	Drainage area (mi^2)	Period of record	Measurements Date	Measurements Discharge (ft^3/s)
		Virgin River basin				
09415460	White River near Red Mountain, near Preston, Nev.	Lat 38°56'35", long 115°20'25", in NW¼SE¼ sec.33. T.13 N., R.59 E., White Pine County, at campsite 8.0 mi (12.9 km) northwest of State Highway 6 and 15 mi (24 km) northwest of Preston.	18.6	1965-80	1-24-80	2.35
09417800	Meadow Valley Wash at Echo Point, near Ursine, Nev.	Lat 37°54'30", long 114°15'40", in SW¼SW¼ sec.28, T.1 N., R.69 E., Lincoln County, at Echo Point, above Echo Reservoir, and 6.0 mi (9.7 km) southwest of Ursine.	354	1970-80	10-10-79 1-29-80 7-24-80	0.32 8.71 0.41
		Spring Valley				
10243745	Odgers Creek near McGill, Nev.	Lat 39°24'08", long 114°31'48", in NE¼ sec.27, T.18 N., R.66 E., White Pine County, at mouth of canyon, and 14 mi (23 km) east of McGill.	3.9	1973-80	1-23-80	0.67
10243750	Bassett Creek near McGill, Nev.	Lat 39°26'20", long 114°32'30", in NW¼SW¼ sec.10, T.18 N., R.66 E., White Pine County, 1.4 mi (3.9 km) upstream from State secondary 739 and 13 mi (21 km) northeast of McGill.	6.5	1968-80	1-22-80	3.10
10243760	Piermont Creek near McGill, Nev.	Lat 39°29'05", long 114°33'00", in NE¼ sec. 28, T.19 N., R.66 E., White Pine County, at mouth of canyon, just above diversion, and 14 mi (23 km) northeast of McGill.	7.5	1972-80	1-23-80	1.05
		Ruby Valley				
10244725	Lutts Creek near Ruby Valley, Nev.	Lat 40°36'10", long 115°17'20", in NE¼NW¼ sec. 2, T.31 N., R.59 E., Elko County, 0.8 mi (1.3 km) west of McCrea Ranch and 13.5 mi (21.7 km) northeast of Ruby Valley Post Office.	7.56	1965-80	7-22-80	13.1
		Humboldt River basin				
10322550	Henderson Creek near Palisade, Nev.	Lat 40°01'50", long 116°14'40", in SE¼ sec. 20, T.25 N., R.51 E., Eureka County, 1.5 mi (2.4 km) upstream from Pete Hanson Creek, 11 mi (18 km) from mouth, and 42 mi (68 km) south of Palisade.	150	1972-80	5-08-80	1.47
10322555	Pete Hanson Creek near Eureka, Nev.	Lat 39°53'10", long 116°22'00", in sec.8, T.23 N., R.50 E., Eureka County, above diversions, 13 mi (21 km) from mouth, 52 mi (84 km) south of Palisade, and 33 mi (53 km) northwest of Eureka.	5.0	1972-80	10-30-79 5-08-80	0.38 2.84

Discharge measurements made at low-flow partial-record stations during water year 1980--Continued

Station no.	Station name	Location	Drainage area (mi^2)	Period of record	Measurements Date	Measurements Discharge (ft^3/s)
		Pyramid and Winnemucca Lakes basin				
10336760	Edgewood Creek at Stateline, Nev.	Lat 38°58'00", long 119°56'10", in NE¼NE¼ sec.27, T.13 N., R.18 E., Douglas County, on upstream side of culvert on U.S. Highway 50 and 0.5 mi (0.8 km) northeast of Stateline.	5.5	1967-80	12-10-79 2-07-80	2.82 3.50
10348480	McCrays Canyon near Carson City, Nev.	Lat 39°12'13", long 119°52'48", in SW¼SW¼ sec.32, T.16 N., R.19 E., Washoe County, 0.5 mi (0.8 km) upstream from mouth, and 6.5 mi (10.5 km) west-northwest of Carson City.	.64	1974-80	10-09-79 7-09-80 9-11-80	0.10 1.26 0.15
10348520	Ophir Creek near Steamboat, Nev.	Lat 39°17'25", long 119°49'50", in SE¼SE¼ T.17 N., R.19 E., Washoe County, at toe of hill, and 8.0 mi (12.9 km) southwest of Steamboat.	4.2	1972-80	10-17-79 2-12-80 7-09-80	0.12 4.74 [illegible].0
10348850	Browns Creek near Steamboat, Nev.	Lat 39°20'28", long 119°49'05", in SE¼NW¼ sec.14, T.17 N., R.19 E., Washoe County, 1.5 mi (2.4 km) upstream from mouth and 5.0 mi (8.0 km) southwest of Steamboat.	3.6	1972-80	1-12-80 7-09-80	3.4 20.9

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained but is not published herein. The years given in the period of record represent water year for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum Date	Annual maximum Gage height (feet)	Annual maximum Discharge (ft^3/s)
		Virgin River basin					
09415100	Pulsipher Wash near Mesquite, Nev.	Lat 36°48'04", long 114°06'37", in NW¼SW¼ sec.18, T.13 S., R.71 E., Clark County, at culvert on U.S. Highway 91 and 2.5 miles west of Mesquite.	4.58	1963-80	9- 9-80	16.68	1,240
09415480	White River tributary near Preston, Nev.	Lat 38°53'30", long 115°11'40", in N½ sec.23, T.12 N., R.60 E., White Pine County, at culvert on U.S. Highway 6, 2 miles upstream from White River, and 7.5 miles west of Preston.	b26	1962-80	1980	-	0
09415600	Pahranagat Valley trib. nr Hiko, Nev.	Lat 37°29'20", long 115°20'10", in NE¼ sec.27, T.5 S., R.59 E., Lincoln County, on left bank tributary on upstream side of culvert on State Highway 25, 10 mi southwest of Hiko, and 47 mi west of Caliente.	b17	1963-80	1980	-	0
09415800	Muddy River tributary near Alamo, Nev.	Lat 37°02'00", long 114°58'50", Lincoln County, at abandoned culvert on former U.S. Highway 93 and 25 miles southeast of Alamo.	b2	1964-80	1980	-	0
09418100	Patterson Wash tributary near Pioche, Nev.	Lat 38°09'00", long 114°35'10", Lincoln County, at culvert on U.S. Highway 93 and 15 miles northwest of Pioche.	b5	1964-80	9-12-80	4.09	3.4
09418150	Caselton Wash near Panaca, Nev.	Lat 37°45'46", long 114°25'44", in NW¼SE¼NW¼ sec.24, T.2 S., R.68 E., Lincoln County, 0.35 mile upstream from bridge on U.S. Highway 93, 3 miles southwest of Panaca. (Revised.)	70.2	1963-80	2-14-80	3.50	62
09418450	Meadow Valley Wash tributary near Caliente, Nev.	Lat 37°36'00", long 114°39'30", in sec.13, T.4 S., R.65 E., Lincoln County, at abandoned culvert, about 100 ft upstream from U.S. Highway 93, 1.2 miles east of Oak Springs Summit, and 8 miles west of Caliente.	0.23	1964-80	1980	-	0
09418990	Weiser Wash near Glendale, Nev.	Lat 36°40'05", long 114°32'10", in SW¼SE¼ sec.31, T.14 S., R.67 E., Clark County, at culvert on Interstate Highway 15 and 2 miles east of Glendale.	b43	1966-80	2-19-80	5.11	a4.3
		Las Vegas Valley					
09419620	Mormon Wells Wash near Las Vegas, Nev.	Lat 36°26'45", long 115°15'10", in NE¼SW¼ sec.27, T.17 S., R.60 E., Clark County, above Mormon Wells road crossing, 6 miles east of Corn Creek Springs National Fish and Wildlife Service Headquarters, and 20 miles north of Las Vegas.	b115	1962-80	7- 1-80	-	7.0

a Estimated.
b Approximately.

Annual maximum discharge at crest-stage partial-record stations--continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Annual maximum Date	Annual maximum Gage height (feet)	Annual maximum Discharge (ft³/s)
		Las Vegas Valley--Continued					
09419623	Deer Creek near Charleston Park, Nev.	Lat 36°18'45", long 115°37'10", in NE¼SE¼ sec.7, T.19 S., R.57 E., Clark County, 200 ft upstream from culvert on Deer Creek Springs Road and 4.0 miles northeast of Charleston Park.	1.27	1967-80	7-26-80	30.03	a0.5
09419630	Telephone Canyon near Charleston Park, Nev.	Lat 36°16'20", long 115°32'30", in SE¼NW¼ sec. 25, T.19 S., R.57 E., Clark County, at culvert on State Highway 39 and 5.8 miles east of Charleston Park.	7.20	1962-80	1980	-	0
09419640	Kyle Canyon near Charleston Park, Nev.	Lat 36°16'40", long 115°28'10", in SE¼SW¼ sec.22, T.19 S., R.58 E., Clark County, 650 ft below culvert on State Highway 39 and 10 miles east of Charleston Park.	35.9	1961-80	1980	-	0
09419647	Las Vegas Wash tributary near North Las Vegas, Nev.	Lat 36°18'10", long 115°08'20", in NW¼NE¼ sec.15, T.19 S., R.61 E., Clark County, 0.5 mile southwest of end of road in Nellis Air Force Base Ground Gunnery Range and 7.5 miles north of North Las Vegas.	b62	1963-80	2-14-80	4.65	a150
09419660	Las Vegas Wash tributary near Nellis Air Force Base, Nev.	Lat 36°13'55", long 115°04'05", in NW¼NE¼ sec.8, T.20 S., R.62 E., Clark County, at culvert on Alternate U.S. Highway 91 and 93 and 1.5 miles southwest of Nellis Air Force Base.	18.1	1961-80	2-14-80	-	a10
09419663	Las Vegas Wash tributary south of Nellis Air Force Base, Nev.	Lat 36°11'40", long 115°01'30", near section line common to secs. 22 and 23, T.20 S., R.62 E., Clark County, 0.1 mile south of Lake Mead Boulevard and 3.7 miles south of main gate of Nellis Air Force Base.	b1.2	1963-80	2-14-80	0.10	a1.0
09419670	Red Rock Wash near Blue Diamond, Nev.	Lat 36°09'30", long 115°29'45", in NE¼NW¼ sec.4, T.21 S., R.58 E., Clark County, 0.2 mile southeast of Willow Spring and 9.3 miles northwest of Blue Diamond.	8.09	1962-80	2-14-80	4.81	31
09419675	Flamingo Wash at Las Vegas, Nev.	Lat 36°06'56", long 115°11'03", in SW¼ sec.17, T.21 S., R.61 E., Clark County, 80 ft upstream from Union Pacific Railroad bridge and 4 miles southwest of Las Vegas Post Office.	b86	1966-80	2-14-80	2.56	a50
09419677	Flamingo Wash at Maryland Parkway, At Las Vegas, Nev.	Lat 36°07'05", long 115°08'15", in SE¼SE¼ sec.15, T.21 S., R.61 E., Clark County, on right bank 90 ft upstream from two 10x12-ft box culverts under Maryland Parkway between Flamingo Road and Twain Avenue in Las Vegas.	b106	1969-80	2-14-80	2.29	75
09419678	Flamingo Wash near mouth at Las Vegas, Nev.	Lat 36°08'28", long 115°05'47", in NW¼NW¼ sec.7, T.21 S., R.62 E., Clark County, 120 ft upstream from culvert on U.S. Highway 93, 95, and 466 and 3.2 miles southeast of Las Vegas Post Office.	b117	1969-80	7- 1-80	9.63	373
09419680	Cottonwood Valley near Blue Diamond, Nev.	Lat 36°00'35", long 115°25'50", in NE¼NW¼ sec.25, T.22 S., R.58 E., Clark County, at culverts on Cottonwood Valley Road and 3 miles southwest of Blue Diamond.	18.3	1961-80	7- 1-80	-	.05

a Estimated.
b Approximately.

Annual maximum discharge at crest-stage partial-record stations--continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft³/s)
		Las Vegas Valley--Continued					
09419690	Duck Creek at Whitney, Nev.	Lat 36°05'09", long 115°02'00", in NW¼NE¼ sec.34, T.21 S., R.62 E., Clark County, at culvert on U.S. Highway 93, 95, and 466 and 0.7 mile southeast of Whitney.	239	1961-80	7- 1-80	6.01	185
09419697	Las Vegas Wash tributary near Henderson, Nev.	Lat 36°01'53", long 115°01'49", in NE¼SE¼ sec.15. T.22 S., R.62 E., Clark County, at culvert on State Highway 41 and 2.5 miles west of downtown Henderson.	1.17	1967-80	7- 1-80	9.66	1,290
		Piute Valley					
09423300	Piute Wash tributary at Searchlight, Nev.	Lat 35°28'00", long 114°56'20", in SE¼NE¼ sec.33, T.28 S., R.63 E., Clark County, at culvert on State Highway 68 and 1 mile west of Searchlight.	b3.4	1967-80	1980	-	0
		Escalante Valley					
10242460	Escalante Valley tributary near Panaca, Nev.	Lat 37°44'10", long 114°08'20", Lincoln County at culvert on State Highway 25, 3.5 miles east of Modena Summit, 5 miles west of Nevada-Utah boundary, and 14 miles east of Panaca.	b7.9	1964-80	9-12-80	5.00	0.2
		Spring Valley					
10243660	Connors Pass Creek near Shoshone, Nev.	Lat 39°02'35", long 114°38'00", in SW¼SW¼ sec.25, T.14 N., R.65 E., White Pine County, at culvert on U.S. Highway 6, 50, and 93 and 18.5 miles northwest of Shoshone.	0.45	1962-80	1980	-	0
		Clover and Independence Valleys					
10244240	Clover Valley tributary near Arthur, Nev.	Lat 40°33'35", long 114°57'40", in SE¼SW¼ sec.15, T.31 N., R.62 E., Elko County, at culvert on U.S. Highway 93 and 21 miles southeast of Arthur.	b3	1968-80	10- -79	3.75	a18
		Dixie Valley Basin					
10244360	Dixie Valley tributary near Eastgate, Nev.	Lat 39°17'30", long 117°59'00", in SE¼ sec.36, T.17 N., R.35 E., Churchill County, at culvert on U.S. Highway 50 and 6 miles west of Eastgate.	b11	1961-80	5- -80	-	a.3
		Rawhide Flats					
10244460	Rawhide Flats tributary near Schurz, Nev.	Lat 39°08'40", long 118°44'55", in S½SW¼ sec.21, T.15 N., R.29 E., Churchill County, at culvert on U.S. Highway 95 and 14 miles north of Schurz.	0.96	1967-80	1980	8.58	a2

a Estimated.
b Approximately.

Annual maximum discharge at crest-stage partial-record stations--continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft^3/s)
		Gabbs Valley					
10244480	Gabbs Valley tributary near Gabbs, Nev.	Lat 38°59'45", long 117°59'45", in sec.13, T.13 N., R.35 E., Nye County, at culvert on State Highway 23 and 9 miles northwest of Gabbs.	b7	1965, 1968-78, 1980	1980	-	0
		Teels Marsh Valley					
10244620	Teels Marsh tributary at Basalt, Nev.	Lat 38°00'07", long 118°16'48", Mineral County, at culvert on U.S. Highway 6 and 0.75 mile southwest of Basalt.	1.07	1967-80	9- -80	-	0.1
		Rhodes Salt Marsh Valley					
10244660	Rhodes Salt Marsh tributary near Candelaria, Nev.	Lat 38°09'27", long 118°12'50", Mineral County, at culvert on State Highway 10 and 7 miles west of Candelaria.	b0.4	1961-80	9- -80	1.59	e
		Steptoe Valley basin					
10245080	Nelson Creek tributary near Currie, Nev.	Lat 40°18'00", long 114°46'20", in SE¼ sec.17, T.28 N., R.64 E., Elko County, at culvert on former U.S. Highway 93 and 2.5 miles northwest of Currie.	b0.7	1961-78, 1980	1980	-	0
		Dry Lake Valley					
10245270	Dry Lake Valley tributary near Caliente, Nev.	Lat 37°37'30", long 114°46'30", in NW¼ sec.11, T.4 S., R.64 E., Lincoln County, at culvert on U.S. Highway 93 and 14.5 miles west of Caliente.	b11	1967-80	1980	-	0
		Jakes Valley					
10245450	Illipah Creek tributary near Hamilton, Nev.	Lat 39°21'35", long 115°21'05", in NW¼NE¼ sec.8, T.17 N., R.59 E., White Pine County, at culvert on U.S. Highway 50, 100 ft upstream from Illipah Creek, and 10.5 miles northeast of Hamilton.	5.47	1962-80	1980	-	0
		Monitor and Diamond Valleys basin					
10245950	Bean Flat tributary near Austin, Nev.	Lat 39°29'32", long 116°32'00", Eureka County, at culvert on U.S. Highway 50 and 29 miles east of Austin.	b1.1	1961-80	1980	-	0
10246000	Garden Pass Creek tributary near Eureka, Nev.	Lat 39°49'00", long 116°09'52", Eureka County, culvert on State Highway 51 and 24 miles northwest of Eureka.	2.12	1962-80	1980	-	a.5
10246010	Garden Pass Creek near Eureka, Nev.	Lat 39°46'45", long 116°06'23", in NW¼NW¼ sec.22, T.22 N., R.52 E., Eureka County, at culvert on State Highway 51 and 20 miles north of Eureka.	19.2	1965-78, 1980	1980	5.63	a7

a Estimated.
b Approximately.
e To be determined.

Annual maximum discharge at crest-stage partial-record stations--continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft³/s)
Hot Creek and Railroad (Northern Part) Valleys							
10246845	Currant Creek tributary near Currant, Nev.	Lat 38°49'10", long 115°19'35", near line common to NW¼NE¼ and NE¼NW¼ sec.15, T.11 N., R.59 E., Nye County, at culvert on U.S. Highway 6 and 9.5 miles northeast of Currant.	3.13	1962-80	3- -80	3.23	29
10247010	Hot Creek tributary near Warm Springs, Nev.	Lat 38°12', long 116°13', in sec.15, T.4 N., R.51 E., Nye County, at culvert on State Highway 25, 9 miles east of Warm Springs, and 57 miles east of Tonopah.	0.77	1964-80	1980	-	0
10247220	Black Rock Summit tributary near Currant, Nev.	Lat 38°30'25", long 115°53'20", Nye County, at culvert on U.S. Highway 6 and 28 miles southwest of Currant.	6.35	1967-80	1980	-	0
10247230	Railroad Valley tributary near Currant, Nev.	Lat [illegible]°32'34", long 115°47'52", in NW¼NW¼sec.21, T.8 N., R.55 E., Nye County, at culvert on U.S. Highway 6 and 22.5 miles southwest of Currant.	0.37	1962-80	1980	-	0
Penoyer Valley basin							
10247860	Penoyer Valley tributary near Tempiute, Nev.	Lat 37°35'07", long 115°40'48", in SE¼NE¼ sec.21, T.4 S., R.56 E., Lincoln County, on left bank upstream side of culvert on State Highway 25, 1 mi northwest of Coyote Summit, and 5.3 mi south of Tempiute.	1.48	1963-80	1980	1.75	a0.2
Indian Springs Valley							
10248490	Indian Springs Valley tributary near Indian Springs, Nev.	Lat 36°34'00", long 115°48'40", in NW¼NW¼ sec.16, or SW¼SW¼ sec.9, T.16 S., R.55 E., Clark County, at culvert on U.S. Highway 95 and 8 miles west of Indian Springs.	b29	1964-80	19[illegible]	2.04	a0.7
Eldorado Valley							
10248510	Eldorado Valley tributary near Nelson, Nev.	Lat 35°48'35", long 114°53'05", in SE¼SE¼ sec.36, T.24 S., R.63 E., Clark County, at culvert on State Highway 60 and 8 miles northwest of Nelson.	1.41	1964-77, 1979-80	1980	-	0
Stonewall and Sarcobatus Flats basin							
10248980	Lida Pass tributary near Lida, Nev.	Lat 37°26'05", long 117°33'25", in SE¼NE¼ sec.8, T.6 S., R.40 E., Esmeralda County, at culvert on State Highway 3 and 4 miles southwest of Lida.	1.59	1968-80	1980	-	0
10249050	Sarcobatus Flat tributary near Springdale Nev.	Lat 37°13'18", long 117°07'35", Nye County, at culvert on State Highway 72, at Bonnie Clare, and 24 miles northwest of Springdale.	37.1	1961-80	9- 9-80	4.23	63

a Estimated.
b Approximately.

Annual maximum discharge at crest-stage partial-record stations--continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft^3/s)
		Stone Cabin and Ralston Valleys					
10249135	San Antonio Wash tributary near Tonopah, Nev.	Lat 38°19'37", long 117°07'25", in SE¼SW¼ sec.35, T.6 N., R.43 E., Nye County, at culvert on State Highway 8A and 19 miles north of Tonopah.	3.42	1965-80	1980	-	0
10249140	Ralston Valley tributary near Tonopah Nev.	Lat 38°17'23", long 117°05'59", in SW¼NE¼ sec.13, T.5 N., R.43 E., Nye County, at culvert on State Highway 8A and 17 miles northeast of Tonopah.	0.20	1961-80	1980	-	0
10249180	Saulsbury Wash near Tonopah, Nev.	Lat 38°07'30", long 116°48'30", in S½SW¼ sec.10, T.3 N., R.46 E., Nye County, at culvert on U.S. Highway 6 and 23 miles east of Tonopah.	b56	1962-80	1980	-	0
		Ione and Big Smoky (Tonopah Flat) Valleys					
10249620	Big Smoky Valley tributary near Tonopah, Nev.	Lat 38°01'52", long 117°13'52", in SW¼NE¼ sec.14, T.2 N., R.42 E., Esmeralda County, at culvert on U.S. Highway 95 and 2.5 miles south of Tonopah.	2.39	1961-80	1980	-	0
10249680	Big Smoky Valley tributary near Blair Junction, Nev.	Lat 38°01'52", long 117°42'35", Esmeralda County, at culvert on U.S. Highway 6 and 95 and 3.5 miles east of Blair Junction.	11.4	1961-80	1980	-	0
		Fish Lake Valley and Columbus Salt Marsh					
10249850	Palmetto Wash tributary near Lida, Nev.	Lat 37°26'30", long 117°41'25", in SW¼SE¼ sec.6, T.6 S., N.39E., Esmeralda County, at culvert on State Highway 3, 7 miles west of Lida Summit, and 11 miles west of Lida.	4.73	1967-77, 1980	1980	-	a0.2
10249855	Palmetto Wash tributary near Oasis, Calif.	Lat 37°27'25", long 117°46'10", in W½SW¼ sec.33, T.5 S., R.38 E., Esmeralda County, Nev., at culvert on State Highway 3 and 8 miles southeast of Oasis, Calif.	b0.24	1968-80	1980	-	e
		Death Valley basin					
10251220	Amargosa River near Beatty, Nev.	Lat 36°52'06", long 116°45'34", in NW¼NE¼ sec.30, T.12 S., R.47 E., Nye County, on left bank, 170 ft downstream from airport road, and 2.8 miles south of Beatty.	b470	1963-68† 1969-80	1980	-	0
10251270	Amargosa River tributary near Mercury, Nev.	Lat 36°33'40", long 116°06'00", in sec.14, T.16 S., R.52 E., Nye County, at culvert on U.S. Highway 95 and 9 miles southwest of Mercury.	110	1963-80	1980	-	0
10251271	Amargosa River tributary No. 1 near Johnnie, Nev.	Lat 36°27'36", long 116°06'28", in NE¼SE¼ sec.22, T.17 S., R.52 E., Nye County, at culvert on State Highway 16 and 3.5 miles northwest of Johnnie.	2.21	1967-80	1980	-	0
10251272	Amargosa River tributary No. 2 near Johnnie, Nev.	Lat 36°26'09", long 116°04'28", in W½NE¼ sec.36, T.17 S., R.52 E., Nye County, at culvert on State Highway 16 and 1.2 miles north of Johnnie.	2.49	1968-80	1980	-	0

† Operated as a continuous-record station.
a Estimated.
b Approximately.
e To be determined.

Annual maximum discharge at crest-stage partial-record stations--continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Annual maximum Date	Annual maximum Gage height (feet)	Annual maximum Discharge (ft³/s)
		Pahrump Valley basin					
10251980	Lovell Wash near Blue Diamond	Lat 36°00'10", long 115°38'38", in NE¼SW¼ sec.25, T.22 S., R.56 E., Clark County, on right bank 0.2 mile downstream from county road, 13.7 miles west of Blue Diamond.	2.30	1965-80	1980	-	0
		Walker Lake basin					
10299120	O'Banion Canyon near Wellington, Nev.	Lat 38°38'05", long 119°15'50", Lyon County, at culvert on State Highway 22 and 10 miles southeast of Wellington.	5.05	1965-80	1980	-	a0.3
10302010	Reese River Canyon near Schurz, Nev.	Lat 36°51'00", long 118°46'55", in NE¼NW¼ sec. 6, T.11 N., R.29 E., Mineral County, at abandoned culvert on former U.S. Highway 95, 6 miles south of Schurz.	b14	1963-80	1-13-80	5.97	13
		Carson River basin					
10311450	Brunswick Canyon near New Empire	Lat 39°10'20", long 119°41'10", in NW¼NE¼ sec.13, T.15 N., R.20 E., Carson City, Nev. 0.3 mile upstream from mouth and 2.5 miles east of New Empire.	12.7	1966-78, 1980	1-13-80	3.23	63
10312012	Adrian Valley tributary near Wabuska, Nev.	Lat 39°12'55", long 119°12'25", in NE¼SE¼ sec.31, T.16 N., R.25 E., Lyon County, at culvert on Alternate U.S. Highway 95 and 4.8 miles northwest of Wabuska.	5.75	1968-80	1980	-	0
10312015	Adrian Valley tributary near Weeks, Nev.	Lat 39°13'45", long 119°13'40", in NW¼NW¼ sec.30, T.16 N., R.25 E., Lyon County, at abandoned culvert on former Alternate U.S. Highway 95 and 4.6 miles southeast of Weeks.	0.12	1960-80	1980	-	0
		Humboldt River basin					
10322980	Cole Creek near Palisade, Nev.	Lat 40°35'05", long 116°08'55", in SE¼NE¼ sec.7. T.31 N., R.52 E., Eureka County, at culvert on State Highway 20 and 3.2 miles southeast of Palisade.	11.4	1962-80	5- 6-80	3.65	a10
10323200	Bob Creek near Beowawc, Nev.	Lat 40°39'35", long 116°24'30", in NE¼SE¼ sec.11, T.32 N., R.49 E., Eureka County, at culvert on Interstate Highway 80 and 6 miles northeast of Beowawe.	13.9	1962-80	1980	4.95	e
10326650	Silver Creek near Austin, Nev.	Lat 39°43'10", long 117°10'04", in NW¼ sec.5, T.21 N., R.43 E., Lander County, at culvert on State Highway 8A and 16.5 miles north of Austin.	b25	1961-80	1980	-	a1.2
10328260	Humboldt River tributary near Bliss, Nev.	Lat 40°59'55", long 117°39'30", in SE¼NE¼ sec.14, T.36 N., R.38 E., Humboldt County, at culvert on Interstate Highway 80 and 5 miles northeast of Winnemucca.	b1.9	1968-78, 1980	1980	5.16	a20

a Estimated.
b Approximately.
e To be determined.

Annual maximum discharge at crest-stage partial-record stations--continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum Date	Annual maximum Gage height (feet)	Annual maximum Discharge (ft^3/s)
		Humboldt River basin--continued					
10336080	Humboldt Slough tributary near Bradys Hot Springs, Nev.	Lat 39°51'05", long 118°55'40", in NE¼NE¼ sec.22, T.23 N., R.27 E., Churchill County, at culvert on U.S. Highway 40 and 95 and 6.5 miles northeast of Bradys Hot Springs.	11.0	1962-80	1980	-	a1.5
		Black Rock Desert basin					
10353510	Eagle Creek near Orovada, Nev.	Lat 41°39'05", long 117°46'40", in SW¼NE¼ sec.35, T.44 N., R.37 E., Humboldt County, at culvert on U.S. Highway 95 and 5.6 miles north of Orovada.	3.44	1962-78, 1980	1980	-	a2
10353710	Black Rock Desert tributary near Sulphur, Nev.	Lat 40°54'00", long 118°37'40", Humboldt County, at culvert on State Highway 49 and 7.5 miles east of Sulphur.	b33	1967-78, 1980	1980	2.44	a4
10353730	Dry Creek near Gerlach	Lat 40°43'43", long 119°27'07", in SE¼NE¼ sec.23, T.33 N., R.23 E., Washoe County, 1 mile north of State Highway 81 and 7.5 miles west of Gerlach.	b3.5	1968-80	1980	-	0
		Tumtum Lake basin					
10407150	Big Spring Reservoir tributary near Denio, Nev.	Lat 41°56'53", long 119°17'51", Humboldt County, at culvert on State Highway 8A, 3.4 miles southwest of Nevada-Oregon State line, and 35 miles west of Denio.	1.02	1963-78, 1980	1980	-	0

a Estimated.
b Approximately.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1980

Measurements of streamflow at miscellaneous sites during the water year are given in the following table. Generally, this category of measurements represents base flow conditions and were made when streamflow was primarily from ground-water storage to give areal coverage to low-flow and drought conditions. However, where miscellaneous measurements were made to document peak flows, verify existing stage-discharge relationships, or meet other project needs, appropriate footnotes are used.

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		Walker Lake basin				
Desert Creek	Walker Lake	Lat 38°44'25", long 119° 18' 15" in NE¼ SE¼ sec.8, T.10 N., R.24 E., Lyon County, at Saroni Canal Siphon, 3.5 mi SE of Wellington.	--	--	6-17-80	34.1
Walker River	Walker Lake	Lat 39°02'42", long 118°51'31", in NE¼SW¼ sec.28, T.14 N., R.28 E., Mineral County, Hydrologic Unit 16050303, 50 ft (15 m) downstream from Weber Dam and 8.5 mi (13.7 km) northwest of Schurz.	--	1977-80	10-26-79	8.01
					11-30-79	7.13
					12-31-79	28.1
					1-23-80	172
					2-27-80	57.9
					3-31-80	57.4
					5-29-80	63.2
					6-26-80	52.1
					7-24-80	113
					8-22-80	132
					9-25-80	123.
Walker River	Walker Lake	Lat 39°00'51", long 118°51'37", in SE¼SW¼ sec.4, T.13 N., R.28 E., Mineral County, Hydrologic Unit 16050303, 2 mi (3.2 km) downstream from Weber Reservoir and 6 mi (9.7 km) northwest of Schurz.	--	1977-80	10-26-79	11.8
					11-30-79	10.3
					12-31-79	9.33
					1-23-80	193
					2-27-80	a500
					3-31-80	290
					8-22-80	227
					9-25-80	244.
		Carson River basin				
10310500 Clear Creek	Carson River	Lat 39°06'50", long 119°47'50", in NW¼NW¼ sec. 1, T.14 N., R.19 E., Carson City, Hydrologic Unit 16050201, on left bank 3 mi (5 km) upstream from mouth and 3.5 mi (5.6 km) southwest of Carson City.	15.5	1948-62‡ 1963-80†	1-11-80	30.8

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† Operated as a crest-stage partial-record station.
‡ Operated as a continuous-record station.
a Approximately.

BEST DOCUMENT AVAILABLE

HYDROGRAPHIC AREAS, STATE OF NEVADA

1-NORTHWEST REGION
1. Pueblo V.
2. Continental Lake V.
3. Gridley Lake V.
4. Virgin V.
5. Sage Hen V.
6. Guano V.
7. Swan Lake V.
8. Massacre Lake V.
9. Long V.
10. Macy Flat
11. Coleman V.
12. Mosquito V.
13. Warner V.
14. Surprise V.
15. Boulder V.
16. Duck Lake V.

2-BLACK ROCK DESERT REGION
17. Pilgrim Flat
18. Painters Flat
19. Dry V.
20. Sano V.
21. Smoke Creek Desert
22. San Emidio Desert
23. Granite Basin
24. Hualapai Flat
25. High Rock Lake V.
26. Mud Meadow
27. Summit Lake V.
28. Black Rock Desert
29. Pine Forest V.
30. Kings River V.
    (A) Rio King Subarea
    (B) Sod House Subarea
31. Desert V.
32. Silver State V.
33. Quinn River V.
    (A) Orovada Subarea
    (B) McDermitt Subarea

3-SNAKE RIVER BASIN
34. Little Owyhee River Area
35. South Fork Owyhee River Area
36. Independence V.
37. Owyhee River Area
38. Bruneau River Area
39. Jarbidge River Area
40. Salmon Falls Creek Area
41. Goose Creek Area

4-HUMBOLDT RIVER BASIN
42. Marys River Basin
43. Starr V. Area
44. North Fork Area
45. Lamoille V.
46. South Fork Area
47. Huntington V.
48. Dixie Creek--Tenmile
    Creek Area
49. Elko Segment
50. Susie Creek Area
51. Maggie Creek Area
52. Marys Creek Area
53. Pine V.
54. Crescent V.
55. Carico Lake V.
56. Upper Reese River V.
57. Antelope V.
58. Middle Reese River V.
59. Lower Reese River V.
60. Whirlwind V.
61. Boulder Flat
62. Rock Creek V.
63. Willow Creek V.
64. Clovers Area
65. Pumpernickel V.
66. Kelly Creek Area
67. Little Humboldt V.
68. Hardscrabble Area
69. Paradise V.
70. Winnemucca Segment
71. Grass V.
72. Imlay Area
73. Lovelock V.
    (A) Oreana Subarea
74. White Plains

5-WEST CENTRAL REGION
75. Bradys Hot Springs Area
76. Fernley Area
77. Fireball V.
78. Granite Springs V.
79. Kumiva V.

6-TRUCKEE RIVER BASIN
80. Winnemucca Lake V.
81. Pyramid Lake V.
82. Dodge Flat
83. Tracy Segment
84. Warm Springs V.
85. Spanish Springs V.
86. Sun V.
87. Truckee Meadows
88. Pleasant V.
89. Washoe V.
90. Lake Tahoe Basin
91. Truckee Canyon Segment

7-WESTERN REGION
92. Lemmon V.
    (A) Silver Lake Subarea
    (B) Lemmon Subarea
93. Antelope V.
94. Bedell Flat
95. Dry V.
96. Newcomb Lake V.
97. Honey Lake V.
98. Skedaddle Creek V.
99. Red Rock V.
100. Cold Spring V.

8-CARSON RIVER BASIN
101. Carson Desert
    (A) Packard Desert
102. Churchill V.
103. Dayton V.
104. Eagle V.
105. Carson Valley

9-WALKER RIVER BASIN
106. Antelope V.
107. Smith V.
108. Mason V.
109. East Walker Area
110. Walker Lake V.
    (A) Schurz Subarea
    (B) Lake Subarea
    (C) Whisky Flat--Hawthorne
        Subarea

10-CENTRAL REGION
111. Alkali V. (Mineral)
    (A) Northern Part
    (B) Southern Part
112. Mono V.
113. Huntoon V.
114. Teels Marsh V.
115. Adobe V.
116. Queen V.
117. Fish Lake V.
118. Columbus Salt Marsh V.
119. Rhodes Salt Marsh V.
120. Garfield Flat
121. Soda Spring V.
    (A) Eastern Part
    (B) Western Part
122. Gabbs V.
123. Rawhide Flats
124. Fairview V.
125. Stingaree V.
126. Cowkick V.
127. Eastgate V. Area
128. Dixie V.
129. Buena Vista V.
130. Pleasant V.
131. Buffalo V.
132. Jersey V.
133. Edwards Creek V.
134. Smith Creek V.
135. Ione V.
136. Monte Cristo V.
137. Big Smoky V.
    (A) Tonopah Flat
    (B) Northern Part
138. Grass V.
139. Kobeh V.
140. Monitor V.
    (A) Northern Part
    (B) Southern Part
141. Ralston V.
142. Alkali Spring V. (Esmeralda)
143. Clayton V.
144. Lida V.
145. Stonewall Flat
146. Sarcobatus Flat
147. Gold Flat
148. Cactus Flat
149. Stone Cabin V.
150. Little Fish Lake V.
151. Antelope V. (Eureka & Nye)
152. Stevens Basin
153. Diamond V.
154. Newark V.
155. Little Smoky V.
    (A) Northern Part
    (B) Central Park
    (C) Southern Part
156. Hot Creek V.
157. Kawich V.
158. Emigrant V.
    (A) Groom Lake V.
    (B) Papoose Lake V.
159. Yucca Flat
160. Frenchman Flat
161. Indian Springs V.
162. Pahrump V.
163. Mesquite V. (Sandy V.)
164. Ivanpah V.
    (A) Northern Part
    (B) Southern Part
165. Jean Lake V.
166. Hidden V. (South)
167. Eldorado V.
168. Three Lakes V. (Northern Part)
169. Tikapoo V. (Tickaboo V.)
    (A) Northern Part
    (B) Southern Part
170. Penoyer V. (Sand Spring V.)
171. Coal V.
172. Garden V.
173. Railroad V.
    (A) Southern Part
    (B) Northern Part
174. Jakes V.
175. Long V.
176. Ruby V.
177. Clover V.
178. Butte V.
    (A) Northern Part (Round V.)
    (B) Southern Part
179. Steptoe V.
180. Cave V.
181. Dry Lake V.
182. Delamar V.
183. Lake V.
184. Spring V.
185. Tippett V.
186. Antelope V. (White Pine & Elko)
    (A) Southern Part
    (B) Northern Part
187. Goshute V.
188. Independence V. (Pequop V.)

11-GREAT SALT LAKE BASIN
189. Thousand Springs V.
    (A) Herrell Siding--Brush Creek Area
    (B) Toano--Rock Spring Area
    (C) Rocky Butte Area
    (D) Montello--Crittenden Creek
        Area (Montello V.)
190. Grouse Creek V.
191. Pilot Creek V.
192. Great Salt Lake Desert
193. Deep Creek V.
194. Pleasant V.
195. Snake V.
196. Hamlin V.

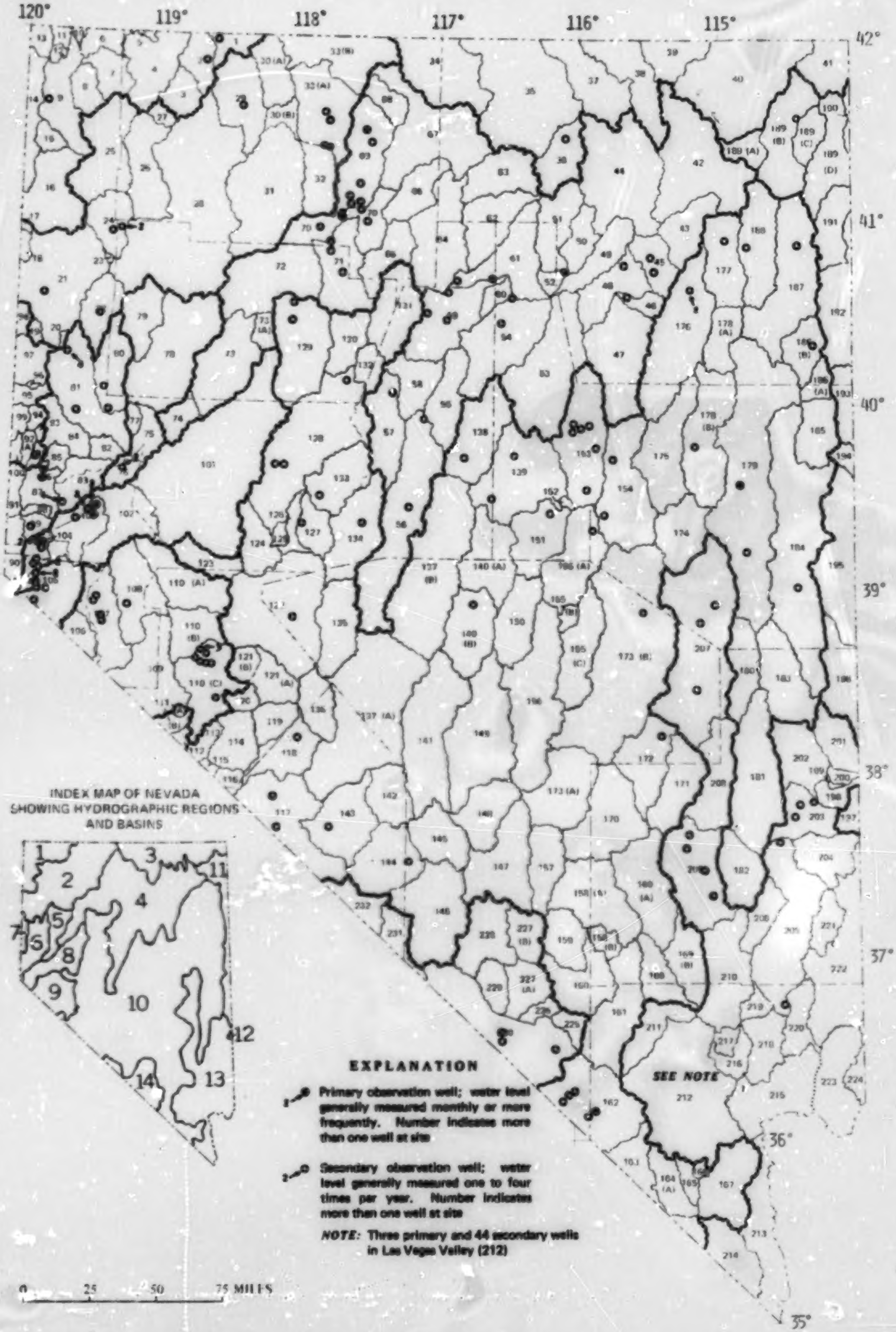
12-ESCALANTE DESERT
197. Escalante Desert

13-COLORADO RIVER BASIN
198. Dry V.
199. Rose V.
200. Eagle V.
201. Spring V.
202. Patterson V.
203. Panaca V.
204. Clover V.
205. Lower Meadow Valley Wash
206. Kane Springs V.
207. White River V.
208. Pahroc V.
209. Pahranagat V.
210. Coyote Spring V.
211. Three Lakes V. (Southern Part)*
212. Las Vegas V.
213. Colorado River V.
214. Piute V.
215. Black Mountains Area
216. Garnet V. (Dry Lake V.)
217. Hidden V. (North)*
218. California Wash
219. Muddy River Springs Area (Upper Moapa V.)
220. Lower Moapa V.
221. Tule Desert
222. Virgin River V.
223. Gold Butte Area
224. Greasewood Basin

14-DEATH VALLEY BASIN
225. Mercury V.
226. Rock V.
227. Fortymile Canyon
    (A) Jackass Flats
    (B) Buckboard Mesa
228. Oasis V.
229. Crater Flat
230. Amargosa Desert
231. Grapevine Canyon
232. Oriental Wash

* Noncontributing part of the
Colorado River Basin

BEST DOCUMENT AVAILABLE



120°
119°
118°
117°
116°
115°
42°
41°
40°
39°
38°
37°
36°
35°
INDEX MAP OF NEVADA SHOWING HYDROGRAPHIC REGIONS AND BASINS
1
2
3
4
5
6
7
8
9
10
11
12
13
14
SEE NOTE
212
0
25
50
75 MILES

EXPLANATION

Primary observation well; water level generally measured monthly or more frequently. Number indicates more than one well at site

Secondary observation well; water level generally measured one to four times per year. Number indicates more than one well at site

NOTE: Three primary and 44 secondary wells in Las Vegas Valley (212)

FIGURE 7.—Observation wells listed in this report.

PARADISE VALLEY

412910117321001. Local number, 69 N42 E39 25C1.
LOCATION.--Lat 41°29'10", long 117°32'10", Hydrologic Unit 16040109, in Humboldt County.
Owner: U.S. Bureau of Land Management.
AQUIFER.--Alluvium of Quaternary age.
WELL CHARACTERISTICS.--Dug unused well, diameter 6 ft (1.8 m), depth 17.4 ft (5.30 m), cased with iron.
DATUM.--Altitude of land-surface datum is 4,523 ft (1,378.6 m). Measuring point: Top of concrete floor, 5.2 ft (1.58 m) below land-surface datum.
REMARKS.--In Paradise Valley.
PERIOD OF RECORD.--1945 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.72 ft (0.52 m) below land-surface datum, June 24, 1975; lowest measured 11.03 ft (3.36 m) below land-surface datum, Nov. 16, 1961.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 29	8.00	Jan. 25	5.78	Apr. 28	2.76	July 31	4.08
Nov. 29	8.04	Feb. 27	3.83	May 28	3.62	Aug. 28	7.11
Dec. 28	7.93	Mar. 26	4.22	June	3.85	Sept. 25	7.69

TRUCKEE MEADOWS

393150119452801. Local number, 87 N19 E20 08ACC1.
LOCATION.--Lat 39°31'50", long 119°45'28", Hydrologic Unit 16050102, in Washoe County.
Owner: J. G. Morrison.
AQUIFER.--Alluvium of Quaternary age.
WELL CHARACTERISTICS.--Drilled unused well, diameter 6 in. (0.15 m), depth 42 ft (12.8 m), cased to 42 ft (12.8 m).
DATUM.--Altitude of land-surface datum is 4,415 ft (1,345.7 m). Measuring point: Top of casing, 0.4 ft (0.12 m) above land-surface datum.
REMARKS.--In Truckee Meadows.
PERIOD OF RECORD.--1956 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.44 ft (0.44 m) below land-surface datum, Aug. 14, 1958; lowest measured 17.60 ft (5.36 m) below land-surface datum, Mar. 21, 1977.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 25	6.79	Jan. 22	6.62	Apr. 22	7.06	July 22	6.89
Nov. 28	7.05	Feb. 20	7.20	May 29	6.53	Aug. 25	7.04
Dec. 26	6.80	Mar. 24	7.57	June 27	6.45	Sept. 23	6.60

EAGLE VALLEY

391046119465902. Local number, 104 N15 E20 07BCDD2.
LOCATION.--Lat 39°10'46", long 119°46'59", Hydrologic Unit 16050201, in Carson City.
Owner: U.S. Geological Survey.
AQUIFER.--Alluvium of Quaternary age.
WELL CHARACTERISTICS.--Drilled observation well, diameter 2 in. (0.05 m), depth 85 ft (25.9 m), cased to 85 ft (25.9 m), perforated 83 to 85 ft (25.3 to 25.9 m).
DATUM.--Altitude of land-surface datum is 4,802 ft (1,463.6 m). Measuring point: Hole in plastic cap, at land-surface datum.
REMARKS.--Eagle Valley; drilled as replacement well for well 391046119465901.
PERIOD OF RECORD.--1977 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 62.40 ft (10.01 m) below land-surface datum, Aug. 1, 1977; lowest measured, 83.96 ft (25.59 m) below land-surface datum, Sept. 29, 1980.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct.		Jan.		Apr. 4	79.83	July 23	82.01
Nov.		Feb. 28	79.77	May 6	80.74	Aug. 27	83.22
Dec.		Mar.		June 5	80.98	Sept. 29	83.96

391044119470201. Local number, 104 N15 E20 07CBAA1.
LOCATION.--Lat 39°10'44", long 119°47'02", Hydrologic Unit 16050201, in Carson City.
Owner: James Harkenrider, formerly Dr. Evan Allred.
AQUIFER.--Alluvium of Quaternary age.
WELL CHARACTERISTICS.--Drilled domestic well, diameter 8 in. (0.20 m), depth 105 ft (32.0 m), cased to 105 ft 32.0 m) perforated 85 to 105 ft (25.9 to 32.0 m).
DATUM.--Altitude of land-surface datum is 4,802 ft (1,463.6 m). Measuring point: Top of casing, through center hole, 1.0 ft (0.30 m) above land-surface datum.
REMARKS.--In Eagle Valley.
PERIOD OF RECORD.--1976 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 58.68 ft (17.88 m) below land-surface datum, Dec. 27, 1976; lowest measured, 83.15 ft (25.34 m) below land-surface datum, Sept. 29, 1980.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct.		Jan.		Apr.		July	
Nov.		Feb. 28	80.00	May 7	79.89	Aug. 27	82.43
Dec.		Mar.		June		Sept. 29	83.15

PAHRUMP VALLEY

360836115531701. Local number, 162 S21 E54 10ACC1.
LOCATION.--Lat 36°08'36", long 115°53'17", Hydrologic Unit 16060015, in Clark County.
Owner: E. S. Bowman.
AQUIFER.--Alluvium of Quaternary age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 14 in. (0.36 m), depth 800 ft (243.8 m), cased to 472 ft (143.9 m), perforated 100 to 450 ft (30.5 to 137.2 m).
DATUM.--Altitude of land-surface datum is 2,885 ft (879.3 m). Measuring point: Edge of recorder shelf, 1.2 ft (0.37 m) above land-surface datum.
REMARKS.--State Engineer well no. 22, measurements supplied by Office of the Nevada State Engineer.
PERIOD OF RECORD.--1944, 1946 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.34 ft (8.64 m) below land-surface datum, Oct. 13, 1944; lowest measured, 112.25 ft (34.21 m) below land-surface datum, Sept. 4, 1980.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, AT NOON FROM RECORDER GRAPH,
WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
5	110.02	—	101.81	101.02	103.69	103.44	105.85	—	109.40	111.24	111.35	112.25
10	109.20	103.29	101.51	100.92	102.29	103.16	106.46	104.25	108.54	111.16	111.55	112.10
15	108.80	103.05	101.39	101.22	102.81	102.83	106.30	104.86	109.91	—	111.65	—
20	107.78	102.22	101.11	101.05	101.03	102.76	106.72	106.71	110.00	—	111.93	—
25	105.12	101.44	100.97	101.05	100.73	103.34	106.46	108.37	110.15	110.83	112.05	—
EOM	104.41	102.55	100.70	103.44	103.54	105.90	105.60	108.93	110.08	111.06	111.93	—

STEPTOE VALLEY

393310114475002. Local number, 179 N20 E64 32C2.
LOCATION.--Lat 39°33'10", long 114°47'50", Hydrologic Unit 16060008, in White Pine County.
Owner: U.S. Geological Survey.
AQUIFER.--Alluvium of Quaternary age.
WELL CHARACTERISTICS.--Drilled test well, diameter 10 in. (0.25 m), depth 110 ft (33.5 m), cased to 122 ft (37.2 m), perforated 20 to 120 ft (6.1 to 36.6 m).
DATUM.--Altitude of land-surface datum is 6,070 ft (1,850.1 m). Measuring point: Top of casing, 1.0 ft (0.30 m) above land-surface datum.
REMARKS.--In Steptoe Valley.
PERIOD OF RECORD.--1918, 1949-57, 1959, 1961 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.49 ft (3.20 m) below land-surface datum, Mar. 29, 1979; lowest measured, 17.87 ft (5.45 m) below land-surface datum, Dec. 17, 1964.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 24	12.20	Jan. 23	11.60	Apr. 24	11.10	July 23	11.68
Nov. 28	11.93	Feb. 21	11.42	May 21	11.01	Aug. 18	11.93
Dec. 19	11.77	Mar. 20	11.29	June 24	11.10	Sept.17	11.94

LAS VEGAS VALLEY

361843115161001. Local number 212 S19 E60 09BCC1.
LOCATION.--Lat 36°18'43", long 115°16'10", Hydrologic Unit 15010015, in Clark County.
Owner: J. P. Goumond.
AQUIFER.--Alluvium of Quaternary age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 10 in. (0.25 m), depth 830 ft (253.0 m), cased to 140 ft (42.7 m).
DATUM.--Altitude of land-surface datum is 2,510 ft (765.0 m). Measuring point: Top of casing, 0.5 ft (0.15 m) above land-surface datum.
REMARKS.--State Engineer well no. 427, measurements supplied by Office of Nevada State Engineer.
PERIOD OF RECORD.--1944 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 43.65 ft (13.30 m) below land-surface datum, June 3, 1946; lowest measured 161.70 ft (49.29 m) below land-surface datum, Sept. 10, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, AT NOON FROM RECORDER GRAPH,
WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
5	156.82	—	155.43	154.80	154.08	151.75	152.43	152.95	153.75	154.18	—	—
10	157.77	156.13	155.72	154.55	153.64	151.85	153.44	153.47	154.46	154.43	—	—
15	156.94	156.13	155.41	154.40	152.92	151.62	153.46	153.77	154.31	154.80	—	—
20	156.76	—	155.05	154.31	153.12	151.52	153.25	153.30	153.19	155.09	—	—
25	156.26	—	154.42	153.51	152.44	153.11	153.30	153.86	154.74	154.79	—	—
EOM	—	—	154.83	153.94	152.65	153.11	153.27	153.89	154.78	155.13	—	—

LAS VEGAS VALLEY--Continued

361611115151301. Local number, 212 S19 E60 27BDC1.
LOCATION.--Lat 36°16'11", long 115°15'13", Hydrologic Unit 15010015, in Clark County.
Owner: U.S. Geological Survey.
AQUIFER.--Alluvium of Quaternary age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in. (0.15 m), depth 905 ft (275.8 m), cased to 84 ft (25.6 m).
DATUM.--Altitude of land-surface datum is 2,360.80 ft (719.57 m). Measuring point: Hole on west side of casing, 1.2 ft (0.37 m) above land-surface datum.
REMARKS.--Measurements supplied by Office of Nevada State Engineer and U.S. Geological Survey personnel.
PERIOD OF RECORD.--1946 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 46.90 ft (14.29 m) above land-surface datum, June 3, 1946; lowest measured, 86.80 ft (26.46 m) below land-surface datum, June 25, 1979.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 1	86.51	Nov. 5	79.93	Dec. 3	76.55	Jan. 7	72.78	Feb. 4	71.71	Mar. 3	71.00	April 7	72.25
8	82.00	13	82.81	10	77.87	14	72.28	11	73.42	10	70.79	14	72.83
15	84.90	19	81.74	17	75.16	21	72.30	19	71.16	17	69.85	21	73.54
22	85.10	26	76.90	31	77.53	28	71.99	25	72.27	24	71.80	28	76.95
29	81.50									31	72.09		

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
May 5	7[illegible].65	June 2	75.50	July 7	77.00	Aug. 4	78.98	Sept. 2	79.35
12	74.24	9	75.90	14	77.20	25	79.69	8	78.87
19	74.70	16	78.33	28	78.80			15	78.19
27	74.83	30	78.85					22	79.20
								27	78.82

360349115100001. Local number, 212 S22 E61 04BCB1.
LOCATION.--Lat 36°03'49", long 115°10'00", Hydrologic Unit 15010015, in Clark County.
Owner: Fitzpatrick.
AQUIFER.--Alluvium of Quaternary age.
WELL CHARACTERISTICS.--Drilled unused well, diameter 8 in. (0.20 m), depth 355 ft (108.2 m).
DATUM.--Altitude of land-surface datum is 2,224.91 ft (678.15 m). Measuring point: Top of casing, 0.8 ft (0.24 m) above land-surface datum.
REMARKS.--State Engineer well no. 189, measurements supplied by Office of Nevada State Engineer.
PERIOD OF RECORD.--1938 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 74.40 ft (22.67 m) below land-surface datum, Jan. 25, 1939; lowest measured, 158.22 ft (48.23 m) below land-surface datum, Oct. 1, 1979.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, AT NOON FROM RECORDER GRAPH, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 1	158.22	Nov. 5	152.18	Dec. 3	150.25	Jan. 7	148.90	Feb. 4	148.48	Mar. 3	148.21
8	151.75	13	150.99	10	149.43	14	148.64	11	148.35	10	148.35
15	151.60	19	151.27	17	153.87	21	148.58	19	148.15	17	148.68
22	151.39	26	151.40	31	149.35	28	148.31	25	148.25	24	148.78
29	151.10									31	149.00

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Apr. 7	149.29	May 5	150.14	June 2	151.17	July 7	152.40	Aug. 4	153.48	Sept. 2	154.20
14	149.73	12	150.65	9	151.67	14	152.42	25	153.41	8	154.30
21	150.10	19	150.88	16	151.80	21	142.82			15	154.05
28	150.30	27	151.12	30	152.35	28	153.28			22	154.10
										29	154.05

County codes: 510, Carson City; 001, Churchill; 003, Clark; 005, Douglas; 007, Elko; 009, Esmeralda, 011, Eureka; 013; Humboldt; 015, Lander; 017, Lincoln; 019, Lyon; 021, Mineral; 023, Nye; 027, Pershing; 029, Storey; 031, Washoe; 033, White Pine.
Water-use codes: H, domestic; I, irrigation; O, observation; S, stock; U, unused.
Geologic-unit codes: 110VLFL, Quaternary valley fill, undifferentiated; 110LSVG, Quaternary Las Vegas Formation; 121KTPK, Pliocene Kate Peak Formation; 121MDCK, Pliocene Muddy Peak Formation; 122ALTA, Miocene Alta Formation.
Aquifer codes: A, artesian; U, unknown; W, water table.

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FEET)
1 N47 E30 15CDCD1	415800118370001	PINE FOREST FRM	13	I	110VLFL	U	200.
2 N45 E28 10CAB 1	415000118440001	ALDER CREEK RNCH	13	S	110VLFL	U	48.
9 N43 E19 33BB 1	413630119520001		31	S	110VLFL	U	70.
21 N31 E19 26B 1	403200119490001	USBLM	31	S	110VLFL	U	111.
22 N30 E23 29B 1	402700119250001		31	U	110VLFL	U	109.
24 N35 E23 35CD 1	405211119202901	USGS	27	U	110VLFL	U	134.
24 N35 E24 32DDC 1	405208119161501	USGS	27	U	110VLFL	W	15.
24 N35 E24 32DDC 2	405208119161502	USGS	27	U	110VLFL	A	66.
29 N43 E32 20DCDD1	413500118250001	C-2 Cattle Co.	13	S	110VLFL	U	
32 N42 E37 32AAAC1	412854117495001	E F RUNOW	13	I	110VLFL	U	250.
32 N42 E37 33BDAB1	413310117482002	DREES	13	I	110VLFL	U	95.
33A N42 E37 03BBAB1	413320117482001	GEORGE REED	13	I	110VLFL	U	160.
33A N42 E37 04BDCA1	413300117494001	DONALD MORRIS	13	I	110VLFL	U	360.
36 N41 E52 28AADA2	412534116072602	ELLISON	7	U	110VLFL	U	200.
45 N33 E58 19ADDD1	404350115281001	H CONRAD	7	H	110VLFL	W	16.
45 N34 E57 24CDDD1	404822115300801	BALBOA	7	H	110VLFL	A	97.
46 N31 E56 16ADDA1	403400115400001		7	S	110VLFL	U	
48 N33 E56 08CAAD1	404521115395801	MOFAT	7	H	110VLFL	W	12.
52 N33 E52 27DDBA1	404240116025001	CARLIN TOWN GOVT	7	U	110VLFL	U	500.
54 N29 E48 03BDCB1	402450116324001	DEAN RANCH	11	S	110VLFL	U	
54 N29 E48 29CACC2	402160116352001	BEOWAWE FARMS	11	I	110VLFL	U	300.
54 N31 E49 05CACC1	403500116284501	WILLIAM CONNELLY	11	H	110VLFL	W	10.
56 N18 E43 06D 1	392700117110001	DARRELL BLANTON	15	I	110VLFL	U	241.
56 N24 E43 35CC 1	395335117062401	STIENEN RANCH	15	I	110VLFL	U	202.
57 N25 E41 12DCC 1	400320117190101	USGS	15	U	110VLFL	W	68.
59 N30 E44 18ADBD1	402831117034201	COPPER CYN MINING CO	15	U	110VLFL	U	264.
59 N31 E44 01DACA1	403520117181101	USGS	15	U	110VLFL	W	52.
59 N32 E47 03DAAC1	404032116391101	USGS	15	U	110VLFL	W	16.
61 N32 E45 11DACC1	403920116520001	USGS	15	U	110VLFL	U	197.
69 N37 E38 02AAC 1	410704117394001	TOLLHOUSE WELL	13	U	110VLFL	W	79.
69 N37 E38 24ACC 1	410415117384701	USGS	13	U	110VLFL	W	38.
69 N37 E39 15CBC 1	410448117344901	USGS	13	U	110VLFL	W	30.
69 N38 E39 09CCAB1	411056117354901	DWIGHT C VEDDER	13	S	110VLFL	U	58.
69 N41 E40 30AABB1	412421117303301	SHELTON SCHOOL	13	U	110VLFL	W	27.
70 N35 E37 08DDCA2	405521117503301	G MCNINCH	13	U		U	77.
70 N36 E38 05DDCD1	410111117431801	USGS	13	U	110VLFL	W	24.
70 N36 E38 16BCCA1	405940117423001	GEORGE HAY CO	13	I	110VLFL	U	55.
70 N36 E39 03CBBB1	410131117345901	USGS	13		110VLFL	W	17.
70 N36 E40 30AACA1	405810117302801	DIAMOND S RANCH	13	U	110VLFL	U	101.
71 N33 E38 32BABB1	404138117441501	USBLM	27	S	110VLFL	W	54.
71 N34 E37 22ACAA1	404940117475001	J BALLARD	27	U	110VLFL	U	50.

Depths, diameter, and altitude: Depths are referenced to land-surface datum (LSD). Well depth, perforated interval, and altitude are rounded to nearest foot. Well diameter is rounded to nearest inch. Altitude is that of LSD, with reference to sea level.
Period of record: Interval shown spans period from earliest measurement to latest measurement, and may include intervals with no record.
Water levels: Levels above LSD are listed as negative values.
Abbreviations: D, dry; F, flowing well; P, pumping; R, reported.

DIAMETER (INCH)	PERFORATED INTERVAL (FEET)	ALTITUDE (FEET)	PERIOD OF RECORD	WATER LEVELS (FEET BELOW LAND SURFACE)					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
16.		4380.	1968-	45.58	03/20/68	56.80	05/01/69	50.32	03/18/80
8.		4228.	1968-	4.17	04/14/71	13.76	03/22/77	11.75	03/18/80
6.		5200.	1968-	10.22	03/13/72	14.66	04/10/79	11.73	03/01/80
6.		4000.	1966-	37.91	09/15/66	54.97	04/17/79	54.66	03/13/80
6.		4013.	1966-	45.20	04/09/69	49.60	03/10/80	49.60	03/10/80
2.	131.- 134.	4250.	1979-	29.53	04/17/79	30.21	03/18/80	30.21	03/18/80
2.		4031.	1967-	3.77	04/16/73	12.56	03/18/80	12.56	03/18/80
2.		4031.	1967-	-2.25	06/14/67	8.24	03/18/80	8.24	03/18/80
6.			1969-	6.95	03/03/70	30.46	05/01/69	29.13	03/18/80
16.	150.- 250.	4200.	1971-	50.95	04/30/73	78.11	04/29/71	52.70	03/18/80
18.		4220.	1948-	36.54	04/21/48	116.58	03/23/77	74.13	04/02/80
12.	10.- 150.	4260.	1949-	16.55	01/20/50	123.19	03/23/77	89.47	03/18/80
16.		4235.	1973-	88.02	03/18/74	108.39	03/23/77	91.74	03/18/80
2.		5700.	1970-	46.59	04/16/71	47.54	03/30/70	47.14	04/17/80
48.		5950.	1934-	0.09	04/28/46	18.00	11/01/40	9.67	03/21/80
8.		5550.	1944-	-1.48	02/26/53	7.10	12/26/52	-0.60	03/21/80
6.		5650.	1964-	77.48	04/05/79	90.92	03/17/70	78.69	03/21/80
42.		5500.	1944-	4.30	06/28/58	11.48	09/12/60	6.83	03/21/80
20.		4920.	1938-	2.77	02/20/51	9.05	10/01/44	6.16	03/19/80
8.		4740.	1973-	-0.09	04/10/78	0.24	03/19/80	0.24	03/19/80
14.		4800.	1958-	54.66	04/10/78	69.28	09/28/66	56.71	03/19/80
48.		4698.	1948-	5.48	04/30/69	8.33	09/22/54	6.44	03/19/80
16.		5750.	1969-	6.87	04/07/80	8.40	03/14/75	6.87	04/07/80
12.		6000.	1962-	-1.33	03/19/76	2.78	03/20/68	-0.90	04/07/80
2.	65.- 67.	4948.	1964-	38.83	04/15/70	50.54	08/05/64	46.07	04/07/80
12.		4609.	1947-	5.25	04/30/69	6.60	09/10/59	6.60	03/19/80
2.		4557.	1964-	29.81	04/13/71	32.48	05/28/64	31.82	03/19/80
8.		4582.	1960-	2.32	04/30/69	8.30	08/16/60	5.42	03/19/80
6.		4518.	1949-	6.00	07/10/52	10.88	10/04/61	8.04	03/19/80
6.		4334.	1970-	32.55	04/18/72	44.53	03/18/80	44.53	03/18/80
1.		4317.	1962-	19.64	04/18/72	22.29	04/13/78	22.18	03/18/80
1.	28.- 30.	4326.	1968-	22.77	04/18/72	26.00	03/18/80	26.00	03/18/80
10.	20.- 75.	4317.	1968-	13.41	03/20/75	24.68	04/03/80	24.68	04/03/80
8.		4414.	1970-	0.69	04/23/71	4.63	03/21/77	2.43	03/18/80
16.		4300.	1947-	58.74	03/17/53	73.11	03/17/80	73.11	03/17/80
1.		4400.	1960-	4.86	04/25/69	13.49	09/20/66	8.77	03/24/80
12.		4292.	1959-	14.01	04/25/69	21.37	04/12/78	18.58	03/24/80
1.		4350.	1960-	3.11	03/21/62	8.07	09/25/61	4.74	03/24/80
6.		5200.	1949-	20.17	09/01/58	46.10	03/15/64	35.47	03/24/80
6.		4431.	1946-	28.40	07/24/46	39.46	03/28/79	38.66	03/17/80
6.		4329.	1946-	9.31	03/21/56	13.48	03/28/79	13.40	03/17/80

BEST DOCUMENT AVAILABLE

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FEET)
71 N35 E37 34AACC2	405130117480002		13	U	110VLFL	U	83.
76 N20 E25 10CCC 1	393539119133001	JOE GARBARINO	19	U	110VLFL	U	28.
76 N20 E25 10CCC 2	393539119133002	JOE GARBARINO	19	U	110VLFL	U	155.
80 N24 E23 36CBA 1	395422119210701	W J CERESOLA	31	U	110VLFL	U	73.
80 N25 E23 23CDBA1	400100119220001		31		110VLFL	W	12.
81 N24 E22 31CCC 2	395357119333401	USBIA	31	U	110VLFL	U	226.
81 N27 E21 09BDA 1	401352119380201	USGS	31	U	110VLFL	U	47.
81 N27 E21 16ABD 1	401245119374401	USGS	31	U	110VLFL	U	44.
81 N28 E21 33CCD 1	401443119381201	USGS	31	U	110VLFL	U	60.
83 N17 E21 06ADCA1	392212119394101	CARLSBURG DEVEL CORP	29	U	122ALTA	U	290.
83 N18 E21 32ABCD1	392313119384201	JOHN CHOATE	29	H	122ALTA	U	300.
83 N18 E21 32CBBD1	392254119392001	MICHAEL DEVANY	29	H	122ALTA	U	180.
83 N18 E21 33BABC1	392320119375301	CARLSBURG DEVEL CORP	29	U	121ETPE	U	300.
87 N20 E20 30DA 1	393415119462101	BASQUE CLUB	31	H	110VLFL	U	12.
89 N16 E19 10BBDA1	391617119502101	FLYING ME RANCH	31	U	110VLFL	U	94.
92B N21 E19 33BBCD1	393850119514901	YORK	31	U	110VLFL	U	165.
103 N17 E22 27CBAC1	391830119301501	USGS	19	U	110VLFL	U	86.
103 N17 E22 32CADA1	391733119321001	GERALDINE SMITH	19	U	110VLFL	U	101.
103 N17 E22 32BACD1	391756119311401	USGS	19	U	110VLFL	U	66.
103 N17 E23 02CDCC1	392143119222401	USGS	19	U	110VLFL	U	86.
103 N17 E23 04DDCC1	392141119240601	W M BOYER	19	U	110VLFL	U	435.

DIAMETER (INCH)	PERFORATED INTERVAL (FEET)	ALTITUDE (FEET)	PERIOD OF RECORD	WATER LEVELS (FEET BELOW LAND SURFACE)					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
10.		4392.	1946-	17.60	05/16/46	29.00	03/28/79	38.15	03/17/80
6.		4134.	1953-	1.96	07/07/55	7.96	03/27/78	6.35	03/07/80
10.		4135.	1953-	3.33	09/02/53	21.10	03/27/78	19.64	03/07/80
6.		3845.	1969-	23.65	07/31/69	27.14	07/14/70	25.20	03/07/80
48.		3800.	1968-	2.47	04/18/73	4.16	04/09/73	3.89	03/10/80
8.		3988.	1970-	10.25	03/09/72	16.69	04/13/78	12.35	03/07/80
2.	45.- 47.	3845.	1967-	5.90	07/28/67	10.20	03/13/80	10.20	03/13/80
2.	42.- 44.	3810.	1967-	16.63	07/28/67	19.20	05/04/79	18.70	03/13/80
2.	58.- 60.	3865.	1967-	15.31	07/28/67	18.88	03/13/80	18.88	03/13/80
6.	60.- 120.	6355.	1977-	73.34	06/20/77	74.57	03/12/80	74.57 74.29 74.23 74.30 74.24 74.26	03/12/80 04/28/80 06/13/80 07/15/80 08/19/80 09/10/80
6.	265.- 295.	5980.	1977-	82.61	06/09/78	92.58	04/04/79	90.14 88.37 87.19 88.44 89.07 89.52	03/12/80 04/28/80 06/13/80 07/15/80 08/19/80 09/10/80
6.	160.- 180	6242.	1977-	95.71	04/28/80	98.77	04/04/79	96.54 95.71 95.73 96.12 96.43 96.66	03/12/80 04/28/80 06/13/80 07/15/80 08/19/80 09/01/80
8.	83.- 300.	5785.	1977-	13.47	04/28/80	23.22	12/06/77	14.57 13.47 13.75 13.98 14.42 14.97	03/12/80 04/28/80 06/13/80 07/15/80 08/19/80 09/10/80
48.		4000.	1948-	1.72	06/04/56	15.02	10/06/60	1.79	03/19/80
12.		5065.	1968-	5.18	03/09/72	7.05	03/21/77	5.42	03/07/80
8.	100.- 165.	4965.	1957-	8.30	03/10/70	22.00	06/13/57	11.02	03/19/80
2.	66.- 86.	4335.	1977-	61.33	06/16/80	66.24	09/22/77	61.34 62.15 61.33 61.90 62.88 62.62	12/20/79 04/28/80 06/16/80 07/17/80 08/19/80 09/10/80
8.		4347.	1970-	53.50	06/03/70	57.60	09/22/77	55.03 55.37 55.16 55.34 55.62 55.72	03/12/80 04/28/80 06/16/80 07/17/80 08/19/80 09/10/80
2.		4339.	1977-	51.90	07/27/78	54.30	09/22/77	52.22 52.03 51.92 52.14 52.35 51.96	03/12/80 04/28/80 06/16/80 07/17/80 08/19/80 09/21/80
2.	83.- 86.	4286.	1977-	56.01	07/26/77	60.27	09/19/80	59.57 59.64 59.73 60.06 60.22 60.27	03/12/80 04/28/80 06/16/80 07/17/80 08/20/80 09/10/80
12.	287.- 395.	4320.	1977-	90.12	04/11/78	96.06	12/20/79	93.69 92.70 92.24 92.33 93.53 94.69	03/12/80 04/28/80 06/16/80 07/17/80 08/20/80 09/10/80

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FEET)
103 N17 E23 07DDDD1	392047119260501	UTAH MINE & CONST CO	19	U	110VLFL	U	306.
103 N17 E23 09CCDC1	392050119244701	USGS	19	U	110VLFL	U	82.
103 N17 E23 09DAAA1	392110119235C01	USGS	19	U	110VLFL	U	84.
103 N17 E23 10ADCD1	392126119230901	USGS	19	U	110VLFL	U	88.
103 N17 E23 10DABD1	392132119232501	TERRY WEATHERMAN	19	I	110VLFL	U	300.
103 N17 E23 10CDBD1	391954119260601	UTAH MINE & CONST CO	19	U	110VLFL	U	273.
103 N17 E23 27ABAC1	391857119230701	STEELE HOLMAN	19	H	110VLFL	U	220.
104 N15 E20 17CACD1	391410119513501	CHILDRENS HOME	25	P	110VLFL	U	595.
104 N15 E20 20CCBB1	391235119521501	PHILIP HARPER	25	I	110VLFL	W	37.
105 N11 E20 06ABB 1	385051119464101	USGS	5	U	110VLFL	U	16.
105 N12 E20 04BAA 2	385620119453101	USGS	5	U	110VDFL	U	21.
105 N12 E20 06ABC 1	385612119464101	USGS	5	U	110VLFL	U	21.
105 N12 E20 07DBC 1	385452119464101	USGS	5	U	110VLFL	U	15.

DIAMETER (INCH)	PERFORATED INTERVAL (FEET)	ALTITUDE (FEET)	PERIOD OF RECORD	WATER LEVELS (FEET BELOW LAND SURFACE)					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
12.	12.-	4324.	1970-	73.98	08/05/70	86.92	09/10/80	83.75	03/12/80
								83.40	04/28/80
								79.91	06/16/80
								85.89	07/17/80
								86.57	08/20/80
								86.92	09/10/80
2.	52.- 82.	4271.	1977-	33.42	09/22/77	38.89	09/10/80	38.48	03/12/80
								38.38	04/28/80
								38.52	06/16/80
								38.63	07/17/80
								38.80	08/20/80
								38.89	09/10/80
2.		4182.	1977-	53.63	03/02/78	60.24	08/17/79	57.19	03/12/80
								56.59	04/28/80
								56.24	06/16/80
								56.49	07/17/80
								57.64	08/20/80
								58.36	09/10/80
2.		4277.	1977-	48.51	04/11/78	52.06	09/10/80	51.68	03/12/80
								51.57	04/28/80
								51.62	06/16/80
								51.84	07/17/80
								51.97	08/20/80
								52.06	09/10/80
12.	234.- 300.	4286.	1969-	48.71	03/05/72	64.09	08/20/80	61.89	03/12/80
								63.18	04/28/80
								61.63	06/16/80
								61.87	07/17/80
								64.09	08/20/80
								64.00	09/10/80
17.	137.- 265.	4286.	1970-	34.84	08/05/70	46.36	09/10/80	43.14	03/12/80
								42.96	04/28/80
								44.69	06/16/80
								45.63	07/17/80
								45.89	08/20/80
								46.36	09/10/80
9.	180.- 2[illegible]0.	4282.	1970-	51.14	06/05/70	53.45	09/10/80	53.15	03/12/80
								53.06	04/28/80
								53.17	06/16/80
								56.15	07/18/80
								53.34	08/20/80
								53.45	09/10/80
18.		4650.	1952-	1.84	03/13/52	23.80	09/16/64	8.26	04/07/80
48.		4685.	1963-	20.53	03/29/71	28.44	04/07/80	28.44	04/07/80
2.	13.- 16.	4845.	1977-	0.58	05/06/78	6.01	09/28/77	3.45	10/26/79
								1.75	05/07/80
								2.44	06/10/80
								2.06	07/14/80
								2.10	08/19/80
								1.63	09/18/80
2.	11.- 21.	4759.	1977-	4.33	06/06/78	9.07	03/28/77	6.05	10/26/79
								5.72	03/06/80
								4.54	04/08/80
								5.61	05/07/80
								4.81	06/10/80
								4.57	07/14/80
								4.69	08/19/80
								5.47	09/18/80
2.	18.- 21.	4746.	1977-	1.95	06/10/80	6.21	10/11/77	4.37	10/26/79
								3.03	03/06/80
								4.04	04/08/80
								3.29	05/07/80
								1.95	06/10/80
								3.18	07/14/80
								2.70	08/19/80
								3.22	09/18/80
2.	13.- 15.	4718.	1977-	1.33	03/28/79	3.52	10/11/77	2.40	10/26/79
								1.60	03/06/80
								1.84	04/08/80
								2.06	05/07/80
								2.06	06/10/80
								2.06	07/14/80
								2.06	08/19/80
								1.87	09/18/80

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FEET)
105 N12 E20 14BAB 1	385430119422401	USGS	5	U	110VLFL	U	21.
105 N13 E19 23BAA 1	385816119482401	USGS	5	U	110VLFL	U	21.
105 N13 E20 18BAA 1	385948119464401	USGS	5	U	110VLFL	U	21.
105 N13 E20 19ACC 1	385834119464101	USGS	5	U	110VLFL	U	11.
105 N13 E20 30DBB 1	385730119464101	USGS	5	U	110VLFL	U	21.
105 N13 E20 32CAA 1	385630119452001	MACK LAND & CATTLE CO	5	I	110VLFL	U	420.
105 N14 E19 25BA 1	390230119480001	CARSON INDIAN COL	5	I	110VLFL	U	239.
105 N14 E20 19ABB 1	390410119464301	USGS	5	U	110VLFL	U	21.
105 N14 E20 30DCC 1	390205119464301	USGS	5	U	110VLFL	U	21.
105 N14 E20 32DCC 1	390137119453601	USGS	5	U	110VLFL	U	21.
107 N10 E24 04CD 1	384500119182001	WALTER STRAUB	19	U	110VLFL	U	250.
107 N11 E23 03DC 1	385030119232001	V BRYAN	19	I	110VLFL	U	242.
107 N11 E24 32DC 1	384610119190001	A NUTTI	19	I	110VLFL	U	390.
107 N12 E23 24CB 1	385314119205901	THREE DBL BAR RANCH	19	U	110VLFL	U	287.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

DIAMETER (INCH)	PERFORATED INTERVAL (FEET)	ALTITUDE (FEET)	PERIOD OF RECORD	WATER LEVELS (FEET BELOW LAND SURFACE)					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
2.	11.- 21.	4839.	1977-	3.61	09/18/80	10.27	04/02/78	4.63	10/26/79
								7.21	03/06/80
								8.42	04/08/80
								8.52	05/07/80
								7.06	06/10/80
								4.88	07/14/80
								4.42	08/19/80
								3.61	09/18/80
2.	18.- 21.	4681.	1977-	0.92	06/06/78	5.02	09/28/77	3.58	10/26/79
								1.39	03/06/80
								2.09	04/08/80
								0.95	05/07/80
								1.58	06/10/80
								1.99	07/14/80
								3.21	08/19/80
								3.08	09/18/80
2.	11.- 21.	4682.	1977-	2.05	03/06/80	4.43	09/29/77	3.56	10/26/79
								2.05	03/06/80
								3.20	04/08/80
								2.28	05/07/80
								2.22	06/10/80
								2.09	07/14/80
								2.69	08/19/80
								2.20	09/18/80
2.	2.- 11.	4694.	1977-	1.03	05/07/80	5.61	09/29/77	3.65	10/26/79
								1.35	03/06/80
								2.33	04/08/80
								1.03	05/07/80
								1.13	06/10/80
								2.59	07/14/80
								2.90	08/19/80
								2.89	09/18/80
2.	19.- 21.	4702.	1977-	1.88	09/28/77	7.97	05/07/80	7.90	10/26/79
								7.08	03/06/80
								7.70	04/08/80
								7.97	05/07/80
								6.70	06/10/80
								6.59	07/14/80
								7.03	08/19/80
								7.01	09/18/80
18.		4733.	1951-	7.22	07/11/67	14.17	08/26/80	10.79	03/06/80
12.		4680.	1951-	6.09	04/04/76	23.00	10/12/61	9.85	03/06/80
2.	11.- 21.	4648.	1977-	5.90	04/08/80	9.46	11/13/77	8.50	10/26/79
								5.90	04/08/80
								6,63	05/07/80
								6.74	06/10/80
								6.95	07/14/80
								7.34	08/19/80
								7.49	09/18/80
2.	11.- 21.	4654.	1977-	2.26	03/06/80	5.51	09/29/77	5.25	10/26/79
								2.26	03/06/80
								3.09	04/08/80
								2.96	05/07/80
								3.24	06/10/80
								3.67	07/14/80
								4.78	08/19/80
								4.80	09/18/80
2.	11.- 21.	4679.	1977-	3.18	07/14/80	9.54	10/02/77	7.29	10/26/79
								3.26	03/06/80
								3.64	04/08/80
								3.24	05/07/80
								3.36	06/10/80
								3.18	07/14/80
								4.49	08/19/80
								5.00	09/18/80
14.		4900.	1948-	60.86	11/30/48	100.64	04/07/78	85.12	03/10/80
12.		4830.	1951-	45.21	06/17/57	76.16	04/07/78	60.12	03/10/80
16.		4865.	1948-	23.62	03/03/48	89.21	06/22/61	44.15	03/10/80
16.		4745.	1972-	4.50	06/23/72	8.35	04/07/78	4.89	03/10/80

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FEET)
108 N12 E25 35DC 1	385110119090001	JOHN C BAKER	19	U	110VLFL	U	253.
110C N06 E31 33BBD 2	382020118310001	SWEETWATER RANCH CO	21	U	110VLFL	U	127.
110C N08 E30 03DA 1	383440118365001	U S ARMY AMTN PLANT	21	N	110VLFL	U	850.
110C N08 E30 04AAA 1	383525118375101	USGS	21	U	110VLFL	U	62.
110C N08 E30 18AAD 1	383310118401001	U S ARMY AMTN PLANT	21	N	110VLFL	U	345.
110C N08 E30 21DDB 1	383150118380001	U S ARMY AMTN PLANT	21	N	110VLFL	U	394.
110C N08 E30 26DDA 1	383100118355001	U S ARMY AMTN PLANT	21	N	110VLFL	U	423.
110C N08 E31 29CDC 1	383100118330001	U S ARMY AMTN PLANT	21	N	110VLFL	U	452.
110C N09 E30 29DDD 1	383624118385801	USGS	21	U	110VLFL	W	18.
110C N09 E30 33CAA 1	383550118382201	USGS	21	U	110VLFL	W	41.
117 S01 E35 28A 1	374950118051001	REX CLARK	9	S	110VLFL	U	624.
117 S03 E35 14C 1	374030118034004	USBLM	9	U	110VLFL	U	112.
118 N03 E36 02BCB 1	380854117565601		9	U	110VLFL	U	145.
122 N11 E36 18DB 1	384850117581001		23	U	110VLFL	U	87.
127 N17 E35 36AD 1	391749117585101	ANGUS DANGBERG	1	U	110VLFL	U	502.
128 N21 E34 27DC 1	393920118084001	GREGORY HOMESTEAD	1	U	110VLFL	U	112.
128 N21 E35 31D 1	393840118050001	USBLM	1	S	110VLFL	U	45.
128 N26 E39 30B 1	400600117380001	LITTLE MCCOY RCH	27	S	110VLFL	U	114.
129 N30 E35 27BBAA2	402640118015002	BERGENDAHL COND CO	27	I	110VLFL	U	208.
129 N31 E35 34CBBD1	403120118015901	GALLIO	27	S	110VLFL	U	41.
133 N19 E37 28BCC 1	392903117495001	CHERRY CREEK RCH	1	S	110VLFL	U	260.
134 N17 E40 08C 1	392100117310001	SMITH CREEK RCH	15	S	110VLFL	W	55.
138 N21 E46 09D 1	394200116480001	GRASS VALLEY RCH	15	H	110VLFL	W	185.
139 N19 E47 36D 1	392800116380001	DRY CREEK RANCH	15		110VLFL	U	102.
139 N21 E49 16C 1	394059116282901	FRED ETCHEGARAY	11	S	110VLFL	W	60.
140B N12 E47 18C 1	385300116440001	PINE CREEK RANCH	23	S	110VLFL	U	
143 S03 E39 16CA 1	374036117392901		9	S	110VLFL	U	60.
144 S06 E43 05CAD 1	372700117110001		9	S	110VLFL	U	
151 N18 E51 34D 1	392310116125001	BARTHOLENA CORP	11	S	110VLFL	U	134.
153 N19 E53 12C 1	393143115572701	IRENE ANDERSON	11	H	111PLDP	W	8.
153 N21HE52 01BC 1	394342114385401	USBLM	11	S	110VLFL	W	70.
153 N22 E54 27CA 1	394520115524001	ROBERT STUCKI	11	H	110VLFL	W	94.
153 N23 E53 27BB 1	395100115593001	USGS	11	U	110VLFL	W	22.
153 N23 E53 30DD 1	395020116030001	USGS	11	U	110VLFL	W	22.
153 N23 E54 18DB 1	395220115561001	USGS	11	U	110VLFL	U	32.
154 N18 E55 31C 1	392300115493001	FERA	33	S	110VLFL	U	43.
154 N21 E55 09B 1	394200115461001	R W HOOPER	33	H	110VLFL	U	34.
155A N17 E54 29CA 1	391858115550201	USBLM	11	S	110VLFL	U	60.
162 S19 E53 33DAA 1	361523116005101	R S BARMER	23	U	110VLFL	A	775.
162 S20 E52 23BBA 1	361204116060301	W M TURNER	23	U	110VLFL	A	500.
162 S20 E53 06CDA 1	361405116033201	ROOKRIDGE &CARRADO	23	U	110VLFL	U	200.
162 S21 E54 19DD 2	360611115561802	TURNER	23	U	110VLFL	W	76.
172 N04 E58 36A 1	381000115240001	USBLM	23	S	110VLFL	U	27.
173B N11 E57 09CD 1	384920115343001	USBLM	23	S	110VLFL	U	354.

BEST DOCUMENT AVAILABLE

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

DIAMETER (INCH)	PERFORATED INTERVAL (FEET)	ALTITUDE (FEET)	PERIOD OF RECORD	WATER LEVELS (FEET BELOW LAND SURFACE) HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
16.		4500.	1953-	3.39	08/18/58	20.44	04/07/78	10.75	03/10/80
10.	45.- 130.	5570.	1951-	42.37	03/12/51	58.36	03/14/80	58.36	03/14/80
18.	441.- 696.	4125.	1954-	47.20	12/09/54	117.86	09/27/65	55.81	03/14/80
2.	60.- 62.	4056.	1968-	31.69	03/18/68	34.81	03/14/80	34.81	03/14/80
18.	328.- 345.	4140.	1952-	95.10	11/21/52	108.76	06/30/76	107.66	03/14/80
18.	336.- 350.	4261.	1952-	199.90	11/21/52	232.69	04/23/73	211.85	03/14/80
18.	276.- 408.	4341.	1952-	245.00	11/21/52	280.23	04/23/73	257.54	03/14/80
18.	264.- 436.	4372.	1952-	242.60	11/21/52	257.29	04/13/70	247.94	03/14/80
2.	16.- 18.	4010.	1968-	8.54	04/23/73	9.73	03/14/80	9.73	03/14/80
2.	35.- 41.	4039.	1968-	18.75	03/18/68	21.54	03/14/80	21.54	03/14/80
16.	150.- 600.	4900.	1948-	25.45	01/21/48	41.45	04/26/78	31.41	03/17/80
12.		4867.	1948-	38.60	06/21/48	61.31	03/17/80	61.31	03/17/80
16.		4580.	1968-	41.23	04/14/78	42.73	03/01/72	41.44	03/21/80
10.		4370.	1961-	36.68	12/13/61	39.80	04/10/80	39.80	04/10/80
8.		5250.	1950-	27.00	02/01/50	127.50	05/08/75	106.68	04/10/80
11.		3500.	1955-	28.04	06/07/56	32.62	02/27/80	32.62	02/27/80
8.		3480.	1955-	32.33	03/23/64	35.93	03/17/66	35.10	02/27/80
6.		3730.	1968-	76.25	03/20/68	96.54	05/02/78	89.42	03/24/80
16.		4240.	1963-	12.97	04/12/78	21.57	03/21/65	15.22	03/17/80
6.		4300.	1961-	28.96	03/22/72	45.84	03/22/68	31.85	03/17/80
6.		5360.	1974-	169.13	03/02/77	176.56	03/16/74	175.91	04/10/80
6.		6054.	1966-	6.96	03/21/77	11.93	03/22/74	11.88	04/07/80
48.		6000.	1968-	23.41	05/01/73	36.92	03/19/68	23.89	04/08/80
8.		6260.	1964-	47.31	04/28/73	56.70	03/16/74	49.60	03/13/80
6.		6179.	1953-	39.15	03/02/53	46.35	03/24/64	43.11	03/18/80
24.		6820.	1968-	0.85	03/20/79	4.65	05/18/74	4.27	04/08/80
6.		4325.	1967-	44.75	01/19/67	52.65	03/20/69	48.88	03/21/80
8.		4622.	1967-	283.74	03/07/79	295.72	03/19/80	295.72	03/19/80
6.		6330.	1951-	93.69	03/16/66	96.11	04/19/71	94.74	03/18/80
30.		6500.	1962-	3.94	03/20/79	7.41	03/24/64	5.82	03/18/80
8.		5888.	1955-	48.78	04/08/66	62.55	03/19/80	62.55	03/19/80
12.		5858.	1949-	5.49	08/11/49	37.92	03/19/80	37.92	03/19/80
2.	20.- 22.	5820.	1964-	11.60	04/22/69	16.52	05/20/64	13.41	03/19/80
2.	20.- 22.	5821.	1964-	14.05	04/22/70	17.10	05/20/64	15.08	03/19/80
2.	30.- 32.	5800.	1964-	16.74	04/28/73	29.57	05/20/64	18.11	03/19/80
36.		5930.	1951-	33.19	09/15/55	43.96	09/11/63	37.27	03/19/80
60.		5950.	1951-	10.67	03/26/56	20.80	10/12/62	16.42	03/19/80
48.		5987.	1962-	50.49	10/20/65	62.82	09/11/63	50.71	03/19/80
12.		2607.	1947-	-23.55	11/20/47	46.10	03/24/80	46.10	03/24/80
14.	32.- 500.	2531.	1954-	30.00	07/16/54	47.00	12/26/58	43.57	03/24/80
14.	30.- 168.	2558.	1952-	15.43	02/02/59	25.66	03/07/79	25.32	03/24/80
10.		2684.	1959-	38.70	01/30/59	47.41	03/06/79	44.40	03/24/80
36.		5200.	1963-	24.30	05/09/63	26.62	04/22/71	24.42	03/20/80
6.		5072.	1948-	169.69	03/21/80	177.51	09/16/49	169.69	03/21/80

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FEET)
176 N32 E60 29C 1	403639115133001	USGS	7	U	110VLFL	U	202.
176 N32 E60 29C 2	403730115134002	USGS	7	U	110VLFL	W	15.
177 N35 E62 27B 1	405310114574001	USGS	7	U	110VLFL	U	286.
178B N22 E60 26A 1	394600115120001	PARIS WELL	33	U	110VLFL	U	130.
179 N15 E64 07A 1	391100114492001	LLOYD SORENSON	33	I	110VLFL	U	200.
184 N13 E67 08D 1	390000114282001	A SCHAURMAN	33	S	110VLFL	W	45.
186B N28 E68 08D 1	401900114200001	HIGHWAY WELL	7	S	110VLFL	U	
187 N34 E67 06A 2	405110114262002	WESTERN PACIFIC RR	7	N	110VLFL	U	250.
188 N34 E63 01D 1	405100114480001	WESTERN PACIFIC RR	7	U	110VLFL	U	320.
189B N43 E66 25D 1	413444114261701	ECCLES RANCH	7	U	110VLFL	W	28.
203 S01 E68 33B 1	374910114231001	LAVON PHILLIPS	17	I	110VLFL	U	120.
203 S02 E68 08B 5	374750114242001	USGS	17	U	110VLFL	U	110.
203 S03 E67 02A 1	374317114265801	GRANT LEE	17	I	110VLFL	U	225.
205 S04 E67 18B 1	373627114315301	EMORY CONAWAY	17	I	110VLFL	U	165.
205 S14 E66 15A 1	364321114351001	USGS	3	U	110VLFL	W	30.
207 N09 E61 07B 1	382432115095801	LLOYD SORENSON	23	S	110VLFL	W	43.
207 N11 E61 35A 1	384640115045001	PUBLIC DOMAIN	33	S	110VLFL	U	44.
207 N12 E62 18D 1	385400115024001	USGS	33	U	110VLFL	U	108.
209 S04 E60 02A 2	373806115125102	NEIL STEWART	17	U	110VLFL	U	255.
209 S04 E60 34A 2	373330115142002	W U SCHOFIELD	17	I	110VLFL	W	96.
209 S06 E61 18D 2	372500115104002	KENT WHIPPLE	17	U	110VLFL	W	41.
209 S08 E61 02C 1	371640115072001	LAMB	17	I	110VLFL	U	92.
212 S19 E60 04DAB 1	361939115154801	NEV DIV FORESTRY	3	I	110VLFL	A	780.
212 S19 E62 32BBA 1	361542115042901	USGS	3	U	110LSVG	U	95.
212 S20 E60 01ADC 1	361416115123701	ANN JONES	3	U	110VLFL	U	148.
212 S20 E60 02BDD 1	361400115141301		3	U	110VLFL	U	275.
212 S20 E60 02DDD 1	361359115133101	ARTHUR E GREY	3	U	110VLFL	A	707.
212 S20 E61 01ACC 1	361425115061901	USGS	3	U	110LSVG	U	84.
212 S20 E61 02DBB 1	361419115072201	HARTWELL & LOWE	3	U	110VLFL	A	785.
212 S20 E61 04BDC 1	361426115095001		3	U	110VLFL	U	270.
212 S20 E61 07CCB 1	361301115115401	ROGERS	3	U	110VLFL	U	300.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

DIAMETER (INCH)	PERFORATED INTERVAL (FEET)	ALTITUDE (FEET)	PERIOD OF RECORD	WATER LEVELS (FEET BELOW LAND SURFACE)					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
6.		6000.	1949-	1.08	04/10/78	3.85	03/07/77	1.68	04/10/80
2.		6000.	1960-	0.75	03/31/70	7.48	09/21/61	4.40	04/10/80
6.		5650.	1941-	6.38	04/04/72	11.07	05/03/55	9.26	03/20/80
6.		6190.	1967-	59.85	04/21/69	65.38	03/19/80	65.38	03/19/80
16.		6500.	1951-	31.76	04/23/70	41.83	03/10/61	34.66	03/20/80
36.		5800.	1951-	11.23	04/21/69	18.60	09/23/61	13.46	03/19/80
6.0		5640.	1948-	96.89	03/20/80	104.71	09/15/49	96.89	03/20/80
16.		5550.	1948-	26.85	03/27/51	30.72	09/17/64	29.26	04/16/80
12.		5610.	1968-	12.56	04/13/79	15.14	03/28/68	14.03	03/20/80
60.		5250.	1967-	8.36	04/29/69	15.21	02/28/68	11.36	03/20/80
10.	60.- 80.	4784.	1946-	30.32	04/25/46	40.68	01/19/77	38.80	03/15/80
8.		5000.	1950-	10.72	03/20/50	22.82	08/27/64	16.68	03/15/80
10.		4605.	1962-	20.74	02/24/62	23.78	03/29/78	23.39	03/15/80
14.		4360.	1963-	13.67	03/15/80	26.26	11/18/65	13.67	03/15/80
0.		1800.	1961-	14.65	01/08/71	21.18	05/10/61	16.39	03/16/80
48.		5400.	1965-	30.00	03/12/68	32.87	03/20/80	32.87	03/20/80
6.		5400.	1953-	3.20	03/16/76	13.66	10/13/62	8.79	03/20/80
6.		5600.	1962-	44.97	04/24/70	53.51	04/13/78	52.15	03/20/80
12.		4200.	1973-	88.60	03/23/73	153.06	03/13/79	146.75	03/15/80
10.		4000.	1955-	60.39	09/15/55	72.73	02/22/65	64.10	03/15/80
6.		3500.	1960-	5.85	02/23/63	11.76	01/18/77	10.11	03/15/80
10.		3020.	1952-	17.33	03/23/73	28.06	02/24/76	18.07	03/15/80
16.		2454.	1946-	-30.40	04/05/46	73.42	06/04/79	72.61 68.95 70.13 71.34	11/08/79 02/29/80 06/10/80 09/29/80
4.	91.- 95.	1958.	1979-	90.98	06/10/80	91.44	10/22/79	91.44 91.15 90.98 91.27	10/22/79 02/26/80 06/10/80 09/29/80
8.		2215.	1968-	97.30	03/04/74	116.94	06/10/80	115.38 113.09 116.94 110.79	11/08/79 02/29/80 06/10/80 09/29/80
10.		2305.	1971-	127.00	03/05/71	170.60	02/27/79	168.58 162.66 168.07	11/08/79 02/29/80 06/10/80
10.		2207.	1955-	86.32	02/10/55	302.94	09/29/80	285.06 280.94 286.81 302.94	11/07/79 02/29/80 06/10/80 09/29/80
4.	80.- 84.	1919.	1979-	61.26	02/26/80	62.48	09/29/80	61.72 61.26 61.44 62.48	10/22/79 02/26/80 06/10/80 09/29/80
8.	90.- 430.	1900.	1949-	-14.20	12/29/49	60.85	11/16/70	29.16 26.12 28.79 30.54	11/08/79 02/23/80 06/10/80 09/29/80
12.		2103.	1976-	75.70	03/04/76	83.74	09/29/80	82.45 81.98 83.55 83.74	11/08/79 02/29/80 06/10/80 09/29/80
10.		2228.	1970-	51.40	02/01/70	78.88	11/07/79	78.88 67.99 67.93 7[illegible].72	11/07/79 02/29/80 06/10/80 09/29/80

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FEET)
212 S20 E61 11CDD 1	361305115073201	USGS	3	U	121MDCX	U	62.
212 S20 E61 17CAD 1	361209115104601		3	U	110VLFL	U	150.
212 S20 E61 17CDB 1	361222115105601	LVVWD	3	U	110VLFL	U	655.
212 S20 E61 21BAB 1	361145115094801	VEGAS HGTS WATER ASC	3	U	110VLFL	A	400.
212 S20 E61 25DAA 1	361051115055201	USGS	3	U	110VLFL	U	25.
212 S20 E61 27BDA 1	361102115083601	USGS	3	U	110VLFL	U	15.
212 S20 E61 29DAB 2	361046115101901		3	H	110VLFL	U	105.
212 S20 E61 32CDC 1	360941115104801	KENNETH SEARLES	3	H	110VLFL	A	665.
212 S20 E61 35DCA 1	361014115074501	NV HWY DPT	3	U		U	18.
212 S20 E61 36BCC 1	361004115065301	NV HWY DPT	3	U		U	15.
212 S20 E62 20ADA 1	361156115034801		3	U	110VLFL	W	155.
212 S20 E62 29DCA 1	361036115040401		3	U	110VLFL	W	98.
212 S20 E62 31BCC 1	360950115054901	NV HWY DPT	3	U		U	30.
212 S21 E61 01ACC 1	360908115062901	USGS	3	U		U	2[illegible].
212 S21 E61 03AAA 1	360924115081101	USGS	3	U	110VLFL	U	15.
212 S21 E61 03ABA 1	360930115083401	USGS	3	U	110VLFL	U	25.
212 S21 E61 03ABB 2	360931115083802	W FARM	3	U	110VLFL	A	867.
212 S21 E61 04AAD 1	360910115092001	HOME LUMBER	3	U	110VLFL	A	793.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

DIAM-ETER (INCH)	PERFORATED INTERVAL (FEET)	ALTITUDE (FEET)	PERIOD OF RECORD	WATER LEVELS (FEET BELOW LAND SURFACE)					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
4.	58.- 62.	1920.	1979-	37.64	02/26/80	38.91	09/29/80	37.78 37.64 37.82 38.91	10/22/79 02/26/80 06/10/80 09/29/80
8.		2138.	1973-	62.20	02/21/73	76.42	09/29/80	71.15 70.38 72.07 76.42	11/07/79 02/29/80 06/10/80 09/29/80
10.	550.- 640.	2146.	1974-	124.39	03/04/74	204.12	09/29/80	169.80 162.47 169.64 204.12	11/07/79 02/29/80 06/10/80 09/29/80
16.	14[illegible].- 400.	2064.	1971-	52.17	02/21/73	85.57	06/04/79	85.48 70.83 74.40	11/07/79 02/29/80 06/10/80
4.	21.- 25.	1881.	1979-	5.80	02/26/80	8.55	10/22/79	8.55 5.80 7.39	10/22/79 02/26/80 06/09/80
4.	11.- 15.	2010.	1979-	8.97	06/10/80	10.67	10/22/79	10.67 9.76 8.97 10.24	10/22/79 02/26/80 06/10/80 09/29/80
8.		2079.	1978-	22.17	02/29/80	28.35	10/25/78	24.22 22.17 23.07 24.49	11/07/79 02/29/80 06/10/80 09/30/80
10.	570.- 650.	2102.	1946-	-81.30	02/27/46	108.19	08/07/75	63.34 54.68 61.34 82.65	11/07/79 02/29/80 06/10/80 09/29/80
2.	15.- 18.	1970.	1979-	9.20	03/02/80	9.71	06/11/80	9.20 9.71 9.66	03/02/80 06/11/80 09/30/80
2.	12.- 15.	1838.	1979-	8.30	03/02/80	9.36	09/30/80	8.30 [illegible].54 9.36	03/02/80 06/11/80 09/30/80
8.		1790.	1970-	70.00	03/04/70	86.39	10/12/77	82.57 78.10 76.89 80.24 74.10 76.89 80.24	11/08/79 02/24/80 06/11/80 09/30/80 02/24/80 06/11/80 09/30/80
8.		1766.	1971-	52.05	02/24/80	75.06	10/12/77	53.08 52.05 52.10 53.98	11/08/79 02/24/80 06/11/80 09/30/80
2.	26.- 30.	1790.	1980-	9.50	03/01/80	10.28	09/30/80	9.50 9.52 10.28	03/01/80 06/11/80 09/30/80
4.	20.- 24.	1840.	1979-	7.02	02/26/80	7.87	09/30/80	7.02 7.54 7.87	02/26/80 06/11/80 09/30/80
4.	11.- 15.	1990.	1979-	7.17	02/26/80	8.42	06/09/80	7.43 7.17 8.42 7.22	10/22/79 02/26/80 06/09/80 09/30/80
4.	21.- 25.	2008.	1979-	9.97	02/26/80	11.20	10/22/79	11.20 9.97 10.56 10.93	10/22/79 02/26/80 06/11/80 09/30/80
12.		2014.	1944-	-38.11	03/06/44	66.89	09/30/80	61.33 47.58 56.59 66.89	11/09/79 03/01/80 06/11/80 09/30/80
10.	642.- 770.	2039.	1944-	-46.70	02/08/50	82.38	09/29/80	77.58 60.93 71.33 82.38	11/21/79 02/29/80 06/10/80 09/29/80

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FEET)
212 S21 E61 04DDB 2	360846115091402	USGS	3	U	110VLFL	U	20.
212 S21 E61 09BBB 1	360838115101801	USGS	3	U	110VLFL	U	25.
212 S21 E61 17BAD 1	360735115105201	USGS	3	U	110LSVG	U	45.
212 S21 E61 22BBA 1	360649115090001	LVVWD	3	U	110VLFL	A	1200.
212 S21 E61 22CCC 1	360600115091001	A P BAKER	3	U	110VLFL	A	500.
212 S21 E61 29AAC 1	360543115101301	MORRIS WOLLMAN	3	U	110VLFL	A	540.
212 S21 E61 36ADC 3	360449115061201	USGS	3	U	110VLFL	U	26.
212 S21 E62 06DBB 1	360905115052701	NV HWY DPT	3	U		U	30.
212 S21 E62 06DCC 1	360846115052601	NV HWY DPT	3	U		U	50.
212 S21 E62 09ABB 1	360833115031901	USGS	3	U	110VLFL	U	37.
212 S21 E62 10ACA 1	360826115020001	NEVADA POWER CO	3	U	110VLFL	A	715.
212 S21 E62 10ACD 1	360817115020301	NEVADA POWER CO	3	U	110VLFL	W	30.
212 S21 E62 19AAB 1	360651115050501	LVVWD	3	U	110VLFL	U	23.
212 S22 E60 01DDD 1	360318115123501	LVVWD	3	U	110VLFL	W	1071.
212 S22 E61 03CCB 1	360340115090801	GEORGE CROCKETT	3	I	110VLFL	A	575.
212 S22 E61 06BCD 1	360355115121301	LVVWD	3	U	110VLFL	U	1000.
212 S22 E62 01CBC 1	360345115002901	GRISWOLD ENTERPRISE	3	I	110VLFL	A	1135.
230 S16 E49 18DC 1	363310116294001	USBLM	23	U	110VLFL	U	348.
230 S16 E49 31BA 1	363120116300001	GORDON BETTLES	23	U	110VLFL	U	162.
230 S17 E52 08CDB 1	362929116005701	HERSHEL & ETAL CLARE	23	I	110VLFL	U	246.

DIAM-ETER (INCH)	PERFORATED INTERVAL (FEET)	ALTITUDE (FEET)	PERIOD OF RECORD	WATER LEVELS (FEET BELOW LAND SURFACE)					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
4.	16.- 20.	2042.	1979-	7.61	02/26/80	9.23	10/22/79	9.23 7.61 8.57 8.34	10/22/79 02/26/80 06/12/80 09/30/80
4.	21.- 25.	2075.	1979-	10.60	06/12/80	17.15	09/14/79	12.39 11.20 10.60 11.94	10/22/79 02/26/80 06/12/80 09/30/80
4.	41.- 45.	2120.	1979-	22.60	09/30/80	26.69	02/26/80	25.77 26.69 25.90 22.60	10/22/79 02/26/80 06/12/80 09/30/80
16.	318.- 786.	2041.	1963-	48.53	03/10/78	127.03	09/30/80	95.74 59.53 113.38 127.03	11/09/79 03/01/80 06/12/80 09/30/80
6.		2072.	1946-	-35.65	12/20/42	93.72	12/20/42	62.54 42.33 78.51 86.53	11/09/79 03/01/80 06/12/80 09/30/80
8.		2140.	1970-	62.36	02/12/73	113.95	07/12/78	101.18 81.34 103.23 97.36	11/09/79 03/01/80 06/12/80 09/30/80
2.	23.- 26.	1948.	1977-	17.00	08/03/77	21.42	11/09/79	21.42 19.25 19.85 22.17	11/09/79 03/01/80 06/11/80 09/30/80
2.	26.- 30.	1778.	1980-	12.91	06/11/80	13.09	03/01/80	13.09 12.91 13.03	03/01/80 06/11/80 09/30/80
2.	46.- 50.	1785.	1980-	9.16	03/01/80	9.87	09/30/80	9.16 9.18 9.87	03/01/80 06/11/80 09/30/80
2.	34.- 37.	1715.	1977-	13.44	06/11/80	17.00	08/03/77	14.01 13.50 13.44 14.19	11/08/79 02/29/80 06/11/80 09/30/80
13.	50.- 80.	1705.	1972-	12.06	02/27/79	19.97	02/22/72	13.95 13.55 14.66 15.84	11/09/79 02/29/80 06/11/80 09/30/80
14.		1695.	1973-	5.73	01/23/79	10.20	09/30/80	8.58 7.85 8.94 10.20	11/09/79 02/29/80 06/11/80 09/30/80
2.		1840.	1979-	11.15	06/05/79	12.22	06/11/80	12.02 11.70 12.22 12.03	11/09/79 02/29/80 06/11/80 09/30/80
16.	250.-1055.	2363.	1969-	253.50	02/25/72	282.13	09/30/80	280.58 280.68 281.30 282.13	11/09/79 03/01/80 06/11/80 09/30/80
10.		2150.	1930-	12.92	04/20/41	101.83	10/02/72	84.13 81.85 90.70	11/08/79 03/01/80 06/13/80
16.	328.- 965.	2332.	1963-	193.00	08/01/63	257.71	03/01/80	257.71	03/01/80
8.		1681.	1946-	-72.00	02/25/63	6.70	07/12/78	6.69 5.32 3.94 5.28	11/09/79 03/01/80 06/11/80 09/30/80
12.		2375.	1955-	103.10	02/12/55	111.94	03/19/80	111.94	03/19/80
16.		2326.	1952-	66.10	05/07/52	75.90	03/19/80	75.90	03/19/80
12.		2395.	1960-	33.24	02/16/65	37.58	02/21/64	35.19	03/19/80

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

STATION NUMBER	STATION NAME		DATE OF SAMPLE	COUNTY	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)
350726114375501	213 S32 E66 33BBB 1	CROWER WELL	79-10-18	003	111FLDP	96	511.00
350910114344001	213 S32 E66 24DBA 1	SUNDANCE SHORES WELL	79-10-18	003	110VLFL	480	727.00
350920114341901	213 S32 E66 13CDD 1	NEVADA CLUB WELL	79-10-18	003	111FLDP	64	520.00
350937114341501	213 S32 E66 13DBB 1	RIVERSIDE TRAILER COURT	79-10-18	003	111FLDP	89	521.00

STATION NUMBER	DATE OF SAMPLE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH FIELD (UNITS)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)
350726114375501	79-10-18	1220	18.22	1250	7.4	410	110	34	110	2.4	4.1
350910114344001	79-10-18	1315	228.00	1280	7.4	270	78	18	170	4.5	4.4
350920114341901	79-10-18	1400	--	--	--	--	--	--	--	--	--
350937114341501	79-10-18	1345	--	1270	7.4	370	100	29	130	2.9	5.3

STATION NUMBER	DATE OF SAMPLE	ALKA-LINITY FIELD (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)
350726114375501	79-10-18	200	330	93	19	820	.00
350910114344001	79-10-18	120	230	210	30	817	1.4
350920114341901	79-10-18	--	340	120	--	--	--
350937114341501	79-10-18	150	350	120	16	841	.03

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October 1, 1976

FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI). This report contains both the inch-pound and SI unit equivalents in the station manuscript descriptions.

Multiply inch-pound units	By	To obtain SI units
	Length	
inches (in)	$2.54\text{x}10^{1}$	millimeters (mm)
	$2.54\text{x}10^{-2}$	meters (m)
feet (ft)	$3.048\text{x}10^{-1}$	meters (m)
miles (mi)	$1.609\text{x}10^{0}$	kilometers (km)
	Area	
acres	$4.047\text{x}10^{3}$	square meters (m^2)
	$4.047\text{x}10^{-1}$	square hectometers (hm^2)
	$4.047\text{x}10^{-3}$	square kilometers (km^2)
square miles (mi^2)	$2.590\text{x}10^{0}$	square kilometers (km^2)
	Volume	
gallons (gal)	$3.785\text{x}10^{0}$	liters (L)
	$3.785\text{x}10^{0}$	cubic decimeters (dm^3)
	$3.785\text{x}10^{-3}$	cubic meters (m^3)
million gallons	$3.785\text{x}10^{3}$	cubic meters (m^3)
	$3.785\text{x}10^{-3}$	cubic hectometers (hm^3)
cubic feet (ft^3)	$2.832\text{x}10^{1}$	cubic decimeters (dm^3)
	$2.832\text{x}10^{-2}$	cubic meters (m^3)
cfs-days	$2.447\text{x}10^{3}$	cubic meters (m^3)
	$2.447\text{x}10^{-3}$	cubic hectometers (hm^3)
acre-feet (acre-ft)	$1.233\text{x}10^{3}$	cubic meters (m^3)
	$1.233\text{x}10^{-3}$	cubic hectometers (hm^3)
	$1.233\text{x}10^{-6}$	cubic kilometers (km^3)
	Flow	
cubic feet per second (ft^3/s)	$2.832\text{x}10^{1}$	liters per second (L/s)
	$2.832\text{x}10^{1}$	cubic decimeters per second (dm^3/s)
	$2.832\text{x}10^{-2}$	cubic meters per second (m^3/s)
gallons per minute (gal/min)	$6.309\text{x}10^{-2}$	liters per second (L/s)
	$6.309\text{x}10^{-2}$	cubic decimeters per second (dm^3/s)
	$6.309\text{x}10^{-5}$	cubic meters per second (m^3/s)
million gallons per day	$4.381\text{x}10^{1}$	cubic decimeters per second (dm^3/s)
	$4.381\text{x}10^{-2}$	cubic meters per second (m^3/s)
	Mass	
tons (short)	$9.072\text{x}10^{-1}$	megagrams (Mg) or metric tons